

State of California
The Resources Agency

DEPARTMENT OF WATER RESOURCES
Division of Operations and Maintenance

STATE WATER PROJECT OPERATIONS DATA

For the month of:
November
2012

Edmund G. Brown Jr.
Governor
State of California

John Laird
Secretary for Resources
The Resources Agency

Mark Cowin
Director
Department of Water Resources

This monthly report of operational data for the State Water Project has been published since January 1965. Monthly SWP Operations Data Reports from January 1990 have been made available on the Internet at <http://www.water.ca.gov/swp/operationscontrol/projectwide.cfm>. It provides the State Water Service Contractors, public agencies, consultants and others with the daily and monthly status of the Project's water and power operations.

Revisions to these data will appear in the Annual Report of Operations reflecting corrections made after the monthly summaries have been printed.

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The organization shown above represents staff and positions relevant to this report as of month of publication on February, 2014. It is the Department's policy to not show staff in "Acting" or "Temporary" positions.

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MONTHLY HIGHLIGHTS

The following activities, actions, and conditions that affected State Water Project operations during November 2012:

Statewide precipitation was about 110 percent of average for the 2012 - 2013 water-year through November 30. Precipitation percentages are used in this report to express historical and regional comparisons. Additional and more specific information is available on the internet at: [“http://cdec.water.ca.gov/snow_rain.html”](http://cdec.water.ca.gov/snow_rain.html).

Snowpack data is compiled four times annually, for the months of January, February, March, and April, by the California Department of Water Resources in Bulletin 120. The Bulletin also contains forecasts of seasonal runoff volume from the state's major watersheds, summaries of precipitation, and reservoir storages in various regions of the State. November snowpack data is not available.

Cumulative unimpaired runoff for the Sacramento River Region for the 2012 - 2013 water-year was 1.5 maf, 108 percent of average. Statewide runoff for the 2012 - 2013 water-year was 90 percent of average.

Statewide reservoir storage was 100 percent of average to date. Total storage in major SWP reservoirs at the end of November was about 2.56 maf compared to 4.31 maf at this time in 2011. On November 30, end-of-month storage at Lake Oroville was about 1.86 maf, as compared to 2.81 maf at this time in 2011. The State share of San Luis Reservoir's end-of-month storage was about 282 taf, as compared with 915 taf at this time in 2011. The combined storage in SWP's southern reservoirs was about 421 taf, compared with about 589 taf at this time in 2011.

SWP water deliveries to date through November were about 3.86 maf. Water deliveries are a combination of project, transfer, and exchange classifications. Total deliveries through this same period in 2011 were 4.56 maf.

Effective November 18, by mutual agreement between the United States Bureau of Reclamation and the California Department of Water Resources in accordance with Article 6(h) of the COA, “Balanced” conditions (with suspended accounting) were declared in the Delta. “Balanced” conditions exist when the DWR and the USBR agree that releases from upstream reservoirs plus unregulated flow approximately equal the water supply needed to meet Sacramento Valley in-basin uses, plus exports. The end-of-month USBR COA balance was 58,195 cfs in favor of the USBR.

There was one measurable earthquake in November within the vicinity of the SWP; no facilities were found to meet inspection criteria. On November 22, at 0650 hours, smoke was detected at Thermalito Pumping/Generating Plant, and all four units were forced out due to ground faults. At 0730 hours, Cal-Fire was dispatched and made entry to the unoccupied plant. Fire in the control room had progressed to cable trays, and the plant remained under control of Cal-Fire. On November 24, at 1030 hours, DWR Commander reported that Cal-Fire had turned operations of the Plant over to DWR. The Plant was completely shut down while bypass gates were opened. Afterbay storage dropped from 31,800 af to 21,500 af until the river outlet could be shut down. There were no personnel injuries, and cause of fire is yet to be determined. Hazardous material crews continued the clean-up operations.

Table 1. Antelope Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 22,566 ac-ft

November 2012

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs					Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage		
				Stream-flow Maint.	Water Supply Contract	Water Right				
Oct 31	4994.44	16,152								
1	4994.44	16,152	0	20	0	0	0	7	27	
2	4994.41	16,129	-23	20	0	0	0	7	27	
3	4994.38	16,107	-22	20	0	0	0	7	27	
4	4994.34	16,076	-31	20	0	0	0	7	27	
5	4994.30	16,046	-30	20	0	0	0	7	27	
6	4994.27	16,023	-23	5	0	0	0	7	12	
7	4994.25	16,007	-16	5	0	0	0	7	12	
8	4994.25	16,007	0	5	0	0	0	7	12	
9	4994.25	16,007	0	5	0	0	0	7	12	
10	4994.30	16,046	39	5	0	0	0	7	12	
11	4994.31	16,053	7	5	0	0	0	7	12	
12	4994.31	16,053	0	5	0	0	0	7	12	
13	4994.31	16,053	0	5	0	0	0	7	12	
14	4994.32	16,061	8	5	0	0	0	7	12	
15	4994.33	16,068	7	5	0	0	0	7	12	
16	4994.33	16,068	0	5	0	0	0	7	12	
17	4994.50	16,198	130	5	0	0	0	7	12	
18	4994.58	16,260	62	5	0	0	0	7	12	
19	4994.63	16,298	38	5	0	0	0	7	12	
20	4994.68	16,337	39	5	0	0	0	7	12	
21	4994.72	16,367	30	5	0	0	0	7	12	
22	4994.74	16,383	16	5	0	0	0	7	12	
23	4994.78	16,414	31	5	0	0	0	6	11	
24	4994.79	16,421	7	5	0	0	0	6	11	
25	4994.80	16,429	8	5	0	0	0	6	11	
26	4994.82	16,445	16	5	0	0	0	6	11	
27	4994.82	16,445	0	5	0	0	0	6	11	
28	4994.91	16,514	69	5	0	0	0	6	11	
29	4995.02	16,600	86	5	0	0	0	6	11	
30	4996.05	17,412	812	5	0	0	0	6	11	
Total cfs-days		---		225	0	0	0	202	427	
Total ac-ft		1,260		446	0	0	0	400	846	
									1,062	
									2,106	

Table 2. Frenchman Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 55,477 ac-ft

November 2012

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	1/ Water Right	Water Supply Contract					
Oct 31	5570.86	32,328									
1	5570.86	32,328	0	2	4	0	0	3	9	9	
2	5570.85	32,317	-11	2	4	0	0	3	9	3	
3	5570.85	32,317	0	2	4	0	0	3	9	9	
4	5570.84	32,306	-11	2	4	0	0	3	9	3	
5	5570.82	32,283	-23	2	4	0	0	3	9	-3	
6	5570.80	32,261	-22	2	4	0	0	3	9	-2	
7	5570.79	32,249	-12	2	4	0	0	3	9	3	
8	5570.74	32,193	-56	2	4	0	0	3	9	-19	
9	5570.72	32,171	-22	2	2	0	0	3	7	-4	
10	5570.73	32,182	11	2	2	0	0	3	7	13	
11	5570.72	32,171	-11	2	2	0	0	3	7	1	
12	5570.71	32,159	-12	2	2	0	0	3	7	1	
13	5570.70	32,148	-11	2	1	0	0	3	6	0	
14	5570.70	32,148	0	2	1	0	0	3	6	6	
15	5570.69	32,137	-11	2	1	0	0	3	6	0	
16	5570.69	32,137	0	2	1	0	0	3	6	6	
17	5570.78	32,238	101	2	1	0	0	3	6	57	
18	5570.81	32,272	34	2	1	0	0	3	6	23	
19	5570.80	32,261	-11	2	1	0	0	3	6	0	
20	5570.80	32,261	0	2	1	0	0	3	6	6	
21	5570.78	32,238	-23	2	0	0	0	3	5	-7	
22	5570.79	32,249	11	2	0	0	0	3	5	11	
23	5570.79	32,249	0	2	0	0	0	3	5	5	
24	5570.77	32,227	-22	2	0	0	0	3	5	-6	
25	5570.77	32,227	0	2	0	0	0	3	5	5	
26	5570.77	32,227	0	2	0	0	0	3	5	5	
27	5570.76	32,216	-11	2	0	0	0	3	5	-1	
28	5570.82	32,283	67	2	0	0	0	3	5	39	
29	5570.81	32,272	-11	2	0	0	0	3	5	-1	
30	5571.26	32,781	509	2	0	0	0	3	5	262	
Total cfs-days				---	60	48	0	0	90	198	
Total ac-ft				453	119	95	0	0	179	393	
										846	

1/ Last Chance Creek Water District.

Table 3. Lake Davis

Daily Operation

(in acre-feet except as noted)

Capacity: 84,371 ac-ft

November 2012

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	Water Right 1/	Water Supply Contract 2/					
Oct 31	5767.27	56,324									
1	5767.27	56,324	0	10	0	0	0	9	19	19	
2	5767.29	56,388	64	10	0	0	0	9	19	51	
3	5767.29	56,388	0	10	0	0	0	9	19	19	
4	5767.27	56,324	-64	10	0	0	0	9	19	-14	
5	5767.27	56,324	0	10	0	0	0	9	19	19	
6	5767.26	56,292	-32	10	0	0	0	9	19	2	
7	5767.25	56,260	-32	10	0	0	0	9	19	2	
8	5767.21	56,131	-129	10	0	0	0	9	19	-46	
9	5767.20	56,099	-32	10	0	0	0	9	19	2	
10	5767.20	56,099	0	10	0	0	0	9	19	19	
11	5767.20	56,099	0	10	0	0	0	9	19	19	
12	5767.18	56,034	-65	10	0	0	0	9	19	-14	
13	5767.17	56,002	-32	10	0	0	0	9	19	2	
14	5767.16	55,970	-32	10	0	0	0	9	19	2	
15	5767.15	55,938	-32	10	0	0	0	9	19	2	
16	5767.12	55,842	-96	10	0	0	0	9	19	-30	
17	5767.31	56,453	611	10	0	0	0	9	19	327	
18	5767.31	56,453	0	10	0	0	0	9	19	19	
19	5767.29	56,388	-65	10	0	0	0	9	19	-14	
20	5767.27	56,324	-64	10	0	0	0	9	19	-14	
21	5767.32	56,485	161	10	0	0	0	9	19	100	
22	5767.32	56,485	0	10	0	0	0	9	19	19	
23	5767.32	56,485	0	10	0	0	0	9	19	19	
24	5767.31	56,453	-32	10	0	0	0	9	19	2	
25	5767.30	56,421	-32	10	0	0	0	9	19	2	
26	5767.29	56,388	-33	10	0	0	0	9	19	2	
27	5767.27	56,324	-64	10	0	0	0	9	19	-14	
28	5767.33	56,518	194	10	0	0	0	9	19	116	
29	5767.42	56,809	291	10	0	0	0	9	19	165	
30	5768.07	58,937	2,128	10	0	0	0	9	19	1,091	
Total cfs-days			---	300	0	0	0	259	559	1,876	
Total ac-ft			2,613	595	0	0	0	513	1,108	3,721	

1/ Includes unclassified non-project diversions to local agencies (Valberti and Romelli).

2/ Includes 0 AF Plumas County and 0 AF Grizzly Ranch.

Table 4. Lake Oroville

Daily Operation

(in acre-feet except as noted)

Capacity: 3,537, 580 ac-ft

November 2012

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow							Inflow		
				Hyatt Powerplant Generation 1/	Palermo Canal 2/	Lime Saddle Marina	Butte County Del Oro	Evaporation 3/	Spill	Total Outflow	Hyatt Powerplant Pumpback	Computed Inflow 4/	
Oct 31	765.50	1,826,563											
1	765.18	1,823,396	-3,167	7,342	4	0	0	36	0	7,382	0	4,215	
2	764.95	1,821,123	-2,273	7,361	4	0	0	44	0	7,409	0	5,136	
3	764.60	1,817,667	-3,456	7,351	4	0	0	44	0	7,399	0	3,943	
4	764.43	1,815,991	-1,676	6,432	4	0	0	59	0	6,495	0	4,819	
5	764.02	1,811,951	-4,040	7,861	4	0	0	51	0	7,916	0	3,876	
6	763.61	1,807,919	-4,032	7,803	4	0	0	88	0	7,895	0	3,863	
7	763.32	1,805,070	-2,849	7,536	4	0	0	95	0	7,635	0	4,786	
8	762.90	1,800,950	-4,120	8,323	4	0	0	65	0	8,392	0	4,272	
9	762.45	1,796,544	-4,406	8,351	4	0	0	44	0	8,399	0	3,993	
10	762.09	1,793,024	-3,520	8,015	4	0	0	29	0	8,048	0	4,528	
11	762.06	1,792,731	-293	6,438	4	0	0	29	0	6,471	0	6,178	
12	761.49	1,787,170	-5,561	8,243	4	0	0	94	0	8,341	0	2,780	
13	761.19	1,784,247	-2,923	8,075	4	0	0	65	0	8,144	0	5,221	
14	760.74	1,779,870	-4,377	8,663	4	0	0	36	0	8,703	0	4,326	
15	760.31	1,775,695	-4,175	8,216	4	0	0	94	0	8,314	0	4,139	
16	760.00	1,772,690	-3,005	8,290	4	0	0	43	0	8,337	0	5,332	
17	760.57	1,778,219	5,529	7,658	4	0	0	43	0	7,705	0	13,234	
18	760.96	1,782,009	3,790	8,234	4	0	0	22	0	8,260	0	12,050	
19	760.70	1,779,482	-2,527	8,008	4	0	0	50	0	8,062	0	5,535	
20	761.04	1,782,787	3,305	7,424	4	0	0	36	0	7,464	0	10,769	
21	761.90	1,791,169	8,382	8,277	4	0	0	36	0	8,317	0	16,699	
22	762.64	1,798,404	7,235	2,383	4	0	0	22	0	2,409	0	9,644	
23	762.91	1,801,048	2,644	4,599	4	0	0	73	0	4,676	0	7,320	
24	762.62	1,798,208	-2,840	7,622	4	0	0	44	0	7,670	0	4,830	
25	762.03	1,792,438	-5,770	11,110	4	0	0	29	0	11,143	0	5,373	
26	761.45	1,786,780	-5,658	10,623	4	0	0	29	0	10,656	0	4,998	
27	760.83	1,780,745	-6,035	11,179	4	0	0	43	0	11,226	0	5,191	
28	760.47	1,777,248	-3,497	11,183	1	0	0	14	0	11,198	0	7,701	
29	760.82	1,780,648	3,400	7,879	0	0	1	22	0	7,902	0	11,302	
30	769.03	1,861,755	81,107	3,676	0	0	1	65	0	3,742	0	84,849	
Total				35,192	234,155	109	0	2	1,444	0	235,710	0	270,902

1/ Includes bypass flows.

2/ South Feather Water and Power Agency.

3/ Evaporation will be zero for days when there is precipitation or heavy overcast.

4/ Does not include pumpback.

**Table 5. Thermalito Forebay
Including Diversion Pool and Power Canal**

Capacity: 25,120 ac-ft

Daily Operation
(in acre-feet except as noted)

November 2012

Date	Storage 1/	Storage Change	Inflow			Outflow					Losses (-) And Gains (+)
			Lake Oroville Releases 2/	Kelly Ridge Generation	Thermalito Pumping- Generating Plant Pumpback	Thermalito Pumping- Generating Plant Generation 3/	Butte County Cal Water	Thermalito Irrigation District	Releases To River 4/	Hyatt Powerplant Pumpback	
Oct 31	24,614										
	1	24,518	-96	7,342	136	0	6,855	0	4	1,315	0
	2	24,417	-101	7,361	51	0	6,855	0	4	1,313	0
	3	24,324	-93	7,351	48	0	6,857	0	4	1,313	0
	4	24,065	-259	6,432	49	0	5,809	0	4	1,313	0
	5	24,405	340	7,861	47	0	7,020	0	4	1,315	0
	6	24,562	157	7,803	47	0	7,070	0	4	1,315	0
	7	24,490	-72	7,536	47	0	6,988	0	4	1,311	0
	8	24,512	22	8,323	47	0	7,761	0	4	1,313	0
	9	24,903	391	8,351	181	0	7,549	0	3	1,315	0
	10	24,228	-675	8,015	424	0	8,457	0	3	1,321	0
	11	24,396	168	6,438	478	0	6,067	0	3	1,333	0
	12	24,468	72	8,243	481	0	7,991	0	3	1,333	0
	13	24,203	-265	8,075	481	0	8,076	0	3	1,339	0
	14	24,225	22	8,663	481	0	8,510	0	3	1,333	0
	15	24,199	-26	8,216	481	0	8,038	0	3	1,335	0
	16	24,302	103	8,290	481	0	7,932	0	3	1,305	0
	17	24,146	-156	7,658	481	0	7,730	0	3	1,309	0
	18	24,375	229	8,234	481	0	7,778	0	3	1,303	0
	19	23,255	-1,120	8,008	481	0	8,798	1	3	1,303	0
	20	23,932	677	7,424	481	0	6,644	1	3	1,313	0
	21	24,372	440	8,277	484	0	7,696	1	3	1,305	0
	22	24,388	16	2,383	487	0	450	1	3	2,420	0
	23	25,092	704	4,599	494	0	0	1	3	4,899	0
	24	24,962	-130	7,622	496	0	3,789	1	2	4,899	0
	25	24,596	-366	11,110	496	0	7,915	1	2	4,879	0
	26	24,324	-272	10,623	496	0	7,284	1	2	4,899	0
	27	24,551	227	11,179	495	0	7,357	1	2	4,917	0
	28	24,207	-344	11,183	479	0	7,956	1	2	4,897	0
	29	24,518	311	7,879	488	0	3,328	1	2	4,897	0
	30	24,582	64	3,676	415	0	22	1	2	4,979	0
Total		-32	234,155	10,714	0	194,582	12	91	69,341	0	19,125

1/ Sum of Thermalito Forebay and Diversion Pool.

2/ Sum of releases from Lake Oroville through Hyatt plant, and spill.

3/ Includes bypass flows at Thermalito.

4/ The sum of the flows from fish barrier dam and the fish hatchery.

Table 6. Thermalito Afterbay

Daily Operation

(in acre-feet except as noted)

Capacity: 57,040 ac-ft

November 2012

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow					Losses (-) and Gains (+)	Total Releases to River 2/
				Thermalito Pumping-Generating Plant Generation 1/	Sutter Butte Canal	Western Canal Lateral	Richvale Canal	Western Canal	Afterbay River Outlet	Thermalito Pumping-Generating Plant Pumpback		
Oct 31	132.66	41,559										
1	132.70	41,709	150	6,855	1,295	1	403	1,402	3,531	0	-73	4,846
2	132.59	41,297	-412	6,855	1,603	10	468	1,537	3,550	0	-99	4,863
3	132.49	40,924	-373	6,857	1,585	16	486	1,517	3,531	0	-95	4,844
4	132.01	39,156	-1,768	5,809	1,587	15	486	1,458	3,531	0	-500	4,844
5	132.00	39,120	-36	7,020	1,664	15	506	1,371	3,531	0	31	4,846
6	131.90	38,756	-364	7,070	1,866	15	516	1,365	3,531	0	-141	4,846
7	131.74	38,178	-578	6,988	1,984	15	563	1,432	3,550	0	-22	4,861
8	131.66	37,890	-288	7,761	2,083	14	605	1,545	3,531	0	-271	4,844
9	131.47	37,211	-679	7,549	2,222	13	553	1,753	3,531	0	-156	4,846
10	131.52	37,389	178	8,457	2,222	13	526	1,884	3,531	0	-103	4,852
11	130.95	35,382	-2,007	6,067	2,222	13	526	1,884	3,531	0	102	4,864
12	130.79	34,827	-555	7,991	2,222	13	526	1,954	3,531	0	-300	4,864
13	130.67	34,414	-413	8,076	2,400	13	540	1,936	3,531	0	-69	4,870
14	130.65	34,346	-68	8,510	2,519	13	607	1,833	3,550	0	-56	4,883
15	130.53	33,936	-410	8,038	2,579	16	635	1,692	3,550	0	24	4,885
16	130.44	33,629	-307	7,932	2,600	19	676	1,579	3,531	0	166	4,836
17	130.40	33,494	-135	7,730	2,580	19	694	1,567	3,531	0	526	4,840
18	130.15	32,652	-842	7,778	2,580	19	694	1,567	3,531	0	-229	4,834
19	130.34	33,291	639	8,798	2,479	15	694	1,454	3,531	0	14	4,834
20	130.03	32,251	-1,040	6,644	2,321	13	694	1,295	3,531	0	170	4,844
21	129.89	31,787	-464	7,696	2,261	13	619	1,196	3,531	0	-540	4,836
22	127.97	25,741	-6,046	450	2,261	12	585	1,139	2,717	0	218	5,137
23	126.57	21,717	-4,024	0	2,261	12	585	1,107	91	0	32	4,990
24	126.49	21,497	-220	3,789	2,261	11	585	1,091	83	0	22	4,982
25	127.86	25,413	3,916	7,915	2,261	11	587	1,091	83	0	34	4,962
26	128.95	28,751	3,338	7,284	2,202	11	585	1,031	83	0	-34	4,982
27	130.13	32,585	3,834	7,357	1,978	12	585	966	87	0	105	5,004
28	131.58	37,603	5,018	7,956	1,809	13	528	803	91	0	306	4,988
29	132.02	39,193	1,590	3,328	1,585	13	466	649	93	0	1,068	4,990
30	131.32	36,679	-2,514	22	1,488	8	466	401	93	0	-80	5,072
Total			-4,880	194,582	62,980	396	16,989	41,499	77,648	0	50	146,989

1/ Includes Bypass flows at Thermalito.

2/ The sum of the flows from the fish barrier dam, fish hatchery, and afterbay river outlet.

Table 7. Oroville-Thermalito Complex

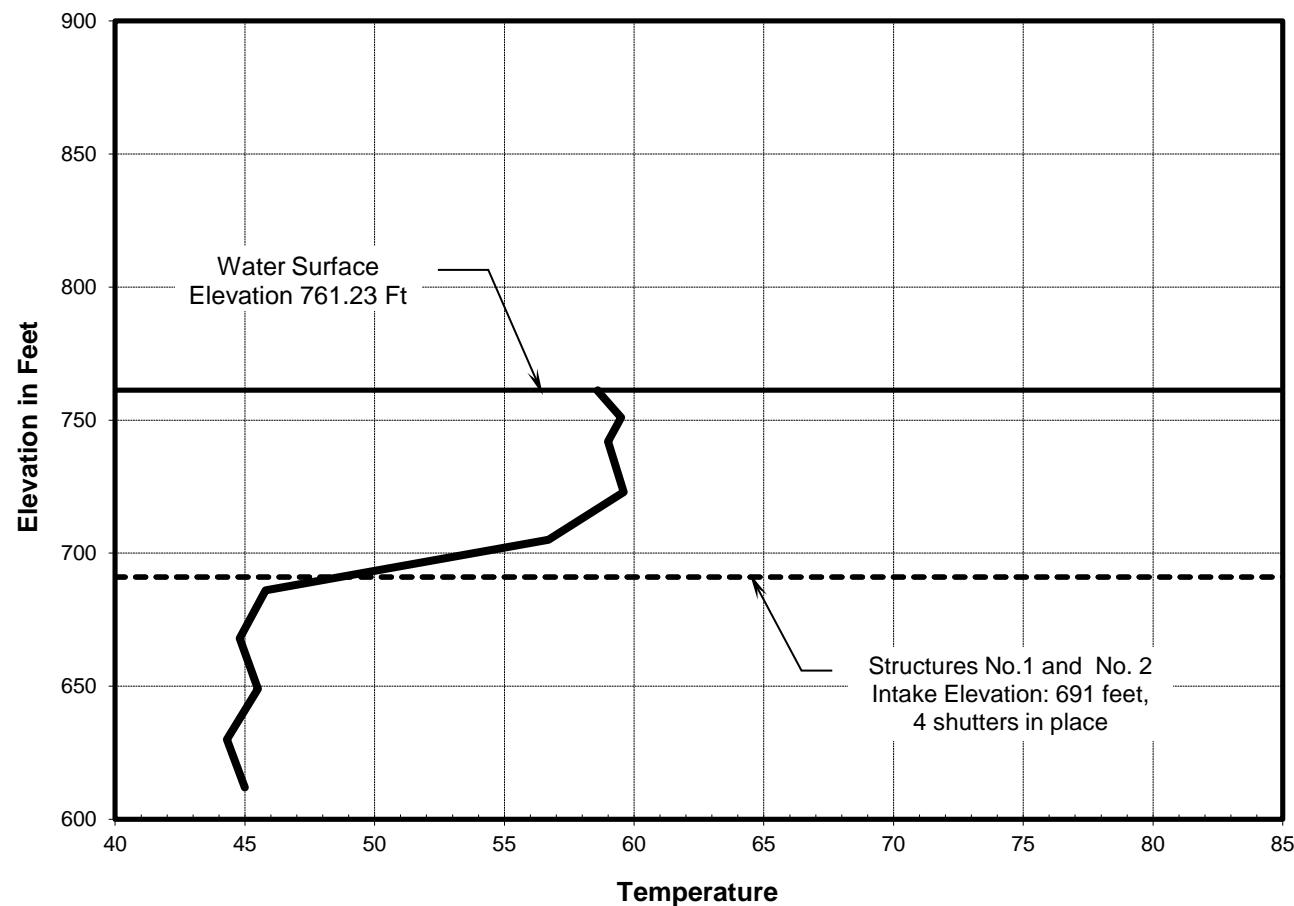
Water Temperature Data

(in degrees Fahrenheit)

November 2012

Date	Mean Daily Temperature	
	Thermalito Afterbay Outlet	Fish Hatchery
1	55.8	54.2
2	56.5	54.2
3	56.6	54.9
4	56.8	53.7
5	56.8	52.9
6	57.1	52.9
7	56.9	53.5
8	56.0	54.3
9	54.4	53.4
10	53.2	54.4
11	52.2	54.7
12	51.9	54.8
13	51.6	54.9
14	51.6	54.8
15	51.9	54.0
16	52.0	53.1
17	52.6	52.8
18	53.1	51.8
19	53.1	52.4
20	53.1	52.9
21	53.3	52.2
22	53.0	51.5
23	53.1	52.5
24	53.1	51.6
25	53.2	51.6
26	53.3	52.3
27	52.5	52.2
28	52.0	52.1
29	52.0	51.5
30	52.7	51.5

**Lake Oroville Temperature Profile
on November 14, 2012**



Note: Water surface elevations on Table 4 are taken at Oroville Dam at midnight and may differ slightly from those shown on this table which are normally taken at mid-day and upstream from Oroville Dam.

Table 8. North Bay Aqueduct
Delta Field Division, Monthly Deliveries

(In acre-feet)

November 2012

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A	Permit	Article 21	Article 56	Settlement Water		
	No.	Structure	Mile									
1	1	Barker Slough Pumping Plant	0.17	(Into the North Bay Aqueduct)	4,607	61	445	932	336	1,089		
		Travis Surge Tank	8.78									
			8.80	Solano County Water Agency Travis AFB	61							
			10.54	Solano County Water Agency Fairfield / Vacaville 24"	336							
				Solano County Water Agency Fairfield / Vacaville 42"	1,089							
			17.00	Solano County Water Agency Central Solano	Stub							
		Cordelia Forebay	21.23									
		Cordelia Pumping Plant & Cordelia Spillway	21.30		3,125							
		Napa Pipeline	21.33	Solano County Water Agency Vallejo	1,124							
				Solano County Water Agency Benicia	932							
3B	2	Cordelia Surge Tank	23.33			14	857	198	0	857		
		Creston Surge Tank Connection	25.65									
			26.95	Napa County Flood Control & WCD American Canyon 2	14							
			27.27	Napa County Flood Control & WCD American Canyon 3	0							
		Napa Terminal Tank	27.58	City of Napa	857							
			27.60	Napa County Flood Control & WCD American Canyon 1	198							

Table 9. Delta Field Division Plant Data

(in acre-feet)

November 2012

Date	North Bay Aqueduct		California Aqueduct				South Bay Aqueduct			
	Barker Slough Pumping Plant	Cordelia Pumping Plant	Banks Pumping Plant		DMC/CA Intertie (DCI)		South Bay Pumping Plant	Del Valle Pumping Plant		
			Total	SWP	Pumped	Released		Into Lake	Into Aqueduct	Gravity Flow Through Plant Into Aqueduct
1	154	98	5,096	5,096	0	0	121	0	0	207
2	155	303	3,722	3,722	69	0	127	0	0	203
3	149	95	1,629	1,629	347	0	150	0	0	204
4	168	106	4,095	4,095	493	0	109	0	0	213
5	180	107	3,010	3,010	478	0	47	0	0	101
6	160	96	3,869	3,869	375	0	37	0	0	138
7	162	101	3,871	3,871	470	0	28	0	0	146
8	152	94	4,769	4,769	468	0	31	0	0	139
9	160	101	4,531	4,531	467	0	5	0	0	133
10	150	94	3,259	3,259	466	0	0	0	0	121
11	145	88	3,210	3,210	694	0	0	0	0	143
12	148	93	3,901	3,901	534	0	0	0	0	142
13	178	108	3,164	3,164	56	0	0	0	0	110
14	176	107	0	0	0	0	0	0	0	118
15	171	113	800	800	711	0	0	0	0	118
16	173	104	3,686	3,686	0	0	0	0	0	126
17	136	86	2,871	2,871	0	0	0	0	0	126
18	137	87	2,921	2,921	0	0	0	0	0	122
19	166	109	11,229	11,229	0	0	47	0	0	115
20	150	97	13,327	13,327	0	0	120	0	0	78
21	150	97	9,863	9,863	432	0	78	0	0	68
22	156	102	9,856	9,856	926	0	78	0	0	74
23	144	95	8,832	8,832	928	0	78	0	0	63
24	136	90	7,807	7,807	936	0	78	0	0	83
25	159	102	7,833	7,833	0	0	78	0	0	60
26	119	93	7,931	7,931	936	0	28	0	0	27
27	150	91	8,691	8,691	839	0	17	0	0	10
28	146	89	9,897	9,897	937	0	26	0	0	10
29	139	91	12,057	12,057	785	0	16	0	0	10
30	138	88	11,007	11,007	938	0	18	0	0	10
Total	4,607	3,125	176,734	176,734	13,285	0	1,317	0	0	3,218

Table 10. Clifton Court Forebay
Daily Operation of Gates

November 2012

Date	Time										Amount of inflow in Acre-Feet
	Opened	Closed									
1	00:01	01:30	04:30	19:15							4,920
2	05:00	09:28	20:20	21:55							3,959
3	00:01	02:45	05:45	10:00							3,962
4	00:01	03:30	06:30	09:40							3,961
5	00:01	04:15	07:15	08:50	09:20	11:10					3,953
6		05:15	08:15	22:15							3,950
7	00:01	06:15	09:15	13:32							3,951
8	01:00	06:35									3,952
9	02:15	06:35									3,946
10	00:01	03:35									2,973
11	01:45	07:20									2,962
12	01:30	05:30									2,968
13	02:15	06:10									2,938
14	07:05	15:45	22:11								2,961
15		00:45	04:22	08:40	09:18	14:15					2,959
16	00:01	01:45	04:45	08:00							2,955
17	00:01	02:30	05:30	09:40							2,957
18	00:01	03:30	06:45	09:05							2,974
19	00:01	04:15	07:50	21:15	23:15						11,893
20		05:15	08:15	21:30							11,896
21	00:30	06:15	09:15	15:45							9,912
22	01:45	11:15	14:45	20:45							9,912
23	00:01	12:15									8,907
24	00:30	13:00	16:00	17:45							7,924
25	01:15	13:45									7,930
26	01:15	13:30									7,919
27	02:30	15:00	17:30	18:20							8,910
28	03:00	15:45	19:10	21:05							9,889
29	00:01	00:45	03:45	16:30							10,885
30	00:01	01:15	04:15	14:30							10,900
Total inflow for the month in AF:											180,078

Table 11. Governor Edmund G. Brown California Aqueduct

Delta Field Division, Monthly Deliveries

(In acre-feet)

November 2012

Reach No.	Operating Pool		Turnout	Total Diver-sions	Deliveries					
	Beginning and Ending				Table A	USBR	Local	Loan Water	Dry Year Purchase	
	No.	Structure	Mile							
1A			1.83	Byron-Bethany I.D.	430					
1	Banks Pumping Plant		3.32		176,734					
2A	South Bay Pumping Plant		4.49	Bethany Reservoir (Into the South Bay Aqueduct)	1,317					
	Check No. 1		5.95							
			8.08	Alameda Co. Zone 7 WA Mountain House Golf Course	0					
	2	Delta Mendota Canal - California Aquaduct Intertie (DCI)	9.1	Inflow to California Aqueduct from Delta Mendota Canal	1/ 13,285					
				Outflow to Delta Mendota Canal from California Aqueduct	0					
	2	Check No. 2	12.01							
			12.47	Musco Olive	59					
	3	Check No. 3	18.29							
			22.16	Tracy Golf & Country Club	0					
	4	Check No. 4	23.99							
	5	Check No. 5	29.73							
	6	Check No. 6	34.24							
2B	7		35.22	Turlock Fruit Company Inflow	0					
		Check No. 7	39.91							
	8		42.46	Oak Flat Water District-A	0					
			42.9	Western Hills WD	29					
			43.81	Oak Flat Water District-B	0					
			44.64	Oak Flat Water District-C	0					
		Check No. 8	45.97							
	9		46.18	Oak Flat Water District-D	17					
				Oak Flat Totals:	17	17	0	0	0	
		Check No. 9	51.3							
	10	Check No. 10	56.86							
	11	Check No. 11	61.4							
	12		66.14	Veteran's Cemetery	8					
		Check No. 12	66.71		185,635	8				

1/ Total USBR pumping from DMC to California Aqueduct through DCI.

Table 12. South Bay Aqueduct
Delta Field Division, Monthly Deliveries

November 2012

(In acre-feet)

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending		Structure			Table A	Article 56	Purchase Pool B	Local	Rec.		
	No.		Mile									
1	1	South Bay Pumping Plant	0.00	(into South Bay Aqueduct)	1,317	6	370	370	370	370		
			3.17	Granite - Vasco Rd. (Temp.)	0							
			3.18	Oakland Scavenger Zone 7	6							
	Check No. 1	3.91										
	2	Check No. 2	5.21									
	3		7.15	Zone 7 Altamont	0							
2		Check No. 3	9.49	Zone 7 Patterson Inflow Exchange	0							
				Zone 7 Patterson Project Water	370							
4	Check No. 4	10.68										
5	Check No. 5	12.29										
6		13.55	Zone 7 Wente #1	32	4		4	4	4			
		14.16	Zone 7 Wente #2	4								
		14.31	Ising Project Water	9								
4	Check No. 6	14.65										
	7		14.78	Zone 7 Arroyo Mocho Project Water	403		9	403	403	403		
		Check No. 7	16.38									
	8		16.57	Zone 7 Wente #3	0		12	12	12	12		
			16.63	Zone 7 Wente #4	12							
			16.69	Zone 7 Norman Nursery	0							
			16.70	Zone 7 Concannon Project Water	4							
		Del Valle Branch Pipeline Junction	18.63	Pumped into Lake Del Valle	0							
5	8			Pumped into South Bay Aqueduct	0							
				Gravity into South Bay Aqueduct	3,218							
		Del Valle Branch Pipeline		Arroyo Valle #1 & #2			25	25	25	25		
				Storage Exchange: Project Water	0							
				Storage Released Inflow Release	0							
				East Bay Regional Park Dist. Del Valle Recreation	3							
				Zone 7 Wente #5	25							
			19.20	So. Livermore Project	1,553		1,553	1,553	1,553	1,553		
6				So. Livermore Storage Released	100							
				So. Livermore Stored Exchanged	0							
			19.21	Zone 7 - Kalthrof Detjens	8							
7	La Costa Tunnel	22.50		ACWD Vallecitos Project Water	0							
		25.97		City of San Francisco San Antonio	0							
8	Mission Tunnel	28.97		ACWD - Bayside 1 & 2 Project Water	844	844	844	844	844	844		
				Storage Released Storage Exchange:	200							
9	Santa Clara Pipeline	35.86		S.C.V.W.D. Meter	688	688	688	688	688	688		

Table 13. Lake Del Valle

Daily Operation

(in acre-feet except as noted)

November 2012

Capacity: 77,106 ac-ft

Date	Water Surface Elevation (feet)	Storage	Storage Change	Inflow		Outflow					Precipitation (inches)
				Natural 1/	From South Bay Aqueduct	Arroyo Valle	South Bay Aqueduct 2/	Recreation Deliveries 3/	Evaporation	Total Outflow	
Oct 31	690.33	31,581									
1	690.00	31,381	-200	11	0	0	207	1	3	211	0.20
2	689.66	31,177	-205	2	0	0	203	1	3	207	0.01
3	689.31	30,967	-210	-2	0	0	204	1	3	208	0.00
4	689.25	30,931	-36	183	0	0	213	0	6	219	0.00
5	689.06	30,817	-113	-6	0	0	101	0	6	107	0.00
6	688.84	30,686	-131	14	0	0	138	0	7	145	0.00
7	688.57	30,526	-160	-7	0	0	146	0	7	153	0.00
8	688.34	30,390	-136	6	0	0	139	0	3	142	0.00
9	688.11	30,255	-135	4	0	0	133	0	6	139	0.21
10	687.90	30,132	-123	-1	0	0	121	0	1	122	0.00
11	687.64	29,980	-152	-7	0	0	143	0	3	146	0.00
12	687.40	29,840	-140	5	0	0	142	0	3	145	0.00
13	686.91	29,556	-284	-167	0	0	110	0	7	117	0.00
14	686.73	29,452	-104	19	0	0	118	0	5	123	0.00
15	686.51	29,325	-127	-7	0	0	118	0	2	120	0.00
16	686.30	29,205	-120	9	0	0	126	0	3	129	0.00
17	686.09	29,085	-120	6	0	0	126	0	0	126	0.10
18	686.17	29,131	46	170	0	0	122	0	2	124	0.45
19	685.96	29,011	-120	1	0	0	115	0	6	121	0.00
20	685.83	28,937	-74	9	0	0	78	0	5	83	0.00
21	685.74	28,886	-51	22	0	0	68	0	5	73	0.29
22	685.61	28,812	-74	2	0	0	74	0	2	76	0.00
23	685.53	28,767	-45	22	0	0	63	0	4	67	0.00
24	685.39	28,688	-79	7	0	0	83	0	3	86	0.00
25	685.00	28,469	-219	-156	0	0	60	0	3	63	0.00
26	684.95	28,441	-28	3	0	0	27	0	4	31	0.00
27	684.91	28,418	-22	-10	0	0	10	0	3	13	0.00
28	684.90	28,413	-6	7	0	0	10	0	3	13	0.02
29	684.90	28,413	0	10	0	0	10	0	0	10	0.00
30	685.33	28,654	241	254	0	0	10	0	3	13	1.03
Total				-2,927	403	0	0	3,218	3	109	3,330
1/ Total inflow from stream gaging station above Lang Canyon and accretions/depletions.											2.31

2/ Project water released to South Bay Aqueduct through Del Valle Pumping Plant.

3/ To East Bay Regional Park District.

NR=No Records

Table 14. Consolidated State-Federal O'Neill Forebay

Daily Operations

November 2012

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Capacity 56,430 ac-ft

Date	Water Surface Elevation (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)				Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)
				Pump In 1/	O'Neill Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	California Aqueduct	O'Neill Pumping Generating Plant (Generation)	Gianelli Pumping Generating Plant (Pumped)	Dos Amigos Pumping Plant	Deliv-eries 2/	
Oct 31	221.53	47,152										
1	221.07	45,944	-1,208	0	2,051	0	2,672	0	287	5,011	2	-32
2	220.58	44,661	-1,283	0	2,741	0	1,679	0	0	5,017	2	-48
3	220.62	44,766	105	0	3,277	0	1,899	0	0	5,005	2	-116
*4	220.76	45,132	366	0	3,349	0	1,946	0	0	5,008	2	-108
5	222.36	49,341	4,209	0	3,487	0	1,800	0	0	3,037	2	-126
6	222.62	50,033	692	0	3,492	0	2,009	0	2,200	2,737	2	-213
7	222.40	49,447	-586	0	3,484	0	1,934	0	2,200	3,278	2	-233
8	221.43	46,889	-2,558	0	3,622	0	2,596	0	4,400	2,898	1	-209
9	221.50	47,073	184	0	3,741	0	2,399	0	2,933	2,885	1	-228
10	220.95	45,629	-1,444	0	3,850	0	1,634	0	2,200	3,837	1	-174
11	220.72	45,027	-602	0	3,878	0	1,899	0	2,200	3,709	1	-171
12	220.92	45,551	524	0	3,858	0	2,140	0	2,200	3,347	1	-186
13	220.03	43,230	-2,321	0	1,981	0	1,831	0	1,186	3,733	1	-62
14	218.25	38,694	-4,536	0	710	493	288	0	0	3,795	1	18
15	219.31	41,375	2,681	0	3,188	1,690	152	0	0	3,526	1	-151
16	220.87	45,420	4,045	0	3,182	1,677	1,443	0	0	4,131	1	-131
17	222.61	50,006	4,586	0	3,142	1,663	1,627	0	0	4,100	1	-19
18	223.10	51,313	1,307	0	3,262	0	1,296	0	0	3,781	1	-117
19	223.81	53,216	1,903	0	3,081	0	5,268	0	3,552	3,633	1	-204
20	223.33	51,928	-1,288	0	3,044	0	6,780	0	6,540	3,675	1	-257
21	222.75	50,379	-1,549	0	3,219	0	4,970	0	5,019	3,767	1	-183
22	222.86	50,673	294	0	3,452	0	5,000	0	4,380	3,637	1	-286
23	223.03	51,126	453	0	3,506	0	5,095	0	4,380	3,720	1	-272
24	222.73	50,326	-800	0	3,559	0	4,269	0	4,380	3,604	1	-246
25	222.36	49,341	-985	0	3,536	0	3,898	0	4,380	3,325	1	-225
26	222.09	48,624	-717	0	3,543	0	4,676	0	4,380	3,925	1	-274
27	221.88	48,071	-553	0	3,688	0	4,282	0	4,375	3,642	2	-230
28	222.54	49,820	1,749	0	3,937	0	5,749	0	4,713	3,803	2	-286
29	222.63	50,060	240	0	3,888	0	6,392	0	6,480	3,379	3	-297
30	222.17	48,836	-1,224	0	3,835	0	5,888	0	6,461	3,684	3	-192
Total			1,684	0	98,583	5,523	93,511	0	78,846	112,629	43	-5,258
Mean cfs			---	0	3,286	184	3,117	0	2,628	3,754	1	-175
Acre-feet			1,684	0	195,816	10,955	185,635	0	156,398	223,810	86	-10,430

1/ Pump-in located at Mile 79.67R.

2/ Includes 0 AF delivered to DFG at O'Neill Forebay, 0 AF to Parks & Rec., and 86 AF to San Luis Water District.

* 25 hr day - used 2.0661 to convert cfs to AF

Table 15. Consolidated State-Federal San Luis Reservoir

Daily Operations

November 2012

United States

State of California

Department of the Interior

The Resources Agency

Bureau of Reclamation

Department of Water Resources

Central Valley Project

Capacity: 2,027,835 ac-ft

State Water Project

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)	Outflow (cfs)			Computed Losses (-) Gains (+) (cfs)
				Gianelli Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	Pacheco Tunnel 1/	Parks and Rec. Del.	
Oct 31	418.14	674,390						
1	418.18	674,740	350	287	0	99	0	-12
2	418.17	674,653	-87	0	0	100	0	56
3	418.15	674,478	-175	0	0	91	0	3
*4	418.09	673,953	-525	0	0	97	0	-157
5	418.06	673,691	-262	0	0	170	0	38
6	418.40	676,665	2,974	2,200	0	193	0	-508
7	418.88	680,872	4,207	2,200	0	185	0	106
8	419.80	688,963	8,091	4,400	0	181	0	-140
9	420.41	694,348	5,385	2,933	0	168	0	-50
10	420.85	698,241	3,893	2,200	0	170	0	-67
11	421.28	702,054	3,813	2,200	0	178	0	-100
12	421.71	705,875	3,821	2,200	0	181	0	-93
13	421.96	708,100	2,225	1,186	0	183	0	119
14	421.87	707,298	-802	0	493	193	0	282
15	421.45	703,564	-3,734	0	1,690	226	0	33
16	421.05	700,014	-3,550	0	1,677	231	0	118
17	420.60	696,028	-3,986	0	1,663	223	0	-124
18	420.55	695,586	-442	0	0	188	0	-35
19	421.18	701,167	5,581	3,552	0	211	0	-527
20	422.56	713,450	12,283	6,540	0	218	0	-129
21	423.67	723,388	9,938	5,019	0	217	0	208
22	424.60	731,754	8,366	4,380	0	213	0	51
23	425.51	739,975	8,221	4,380	0	211	0	-24
24	426.43	748,303	8,328	4,380	0	210	0	29
25	427.30	756,211	7,908	4,380	0	207	0	-186
26	428.23	764,696	8,485	4,380	0	200	0	98
27	429.15	773,121	8,425	4,375	0	177	0	50
28	430.13	782,131	9,010	4,713	0	164	0	-7
29	431.46	794,415	12,284	6,480	0	161	0	-126
30	432.85	807,324	12,909	6,461	0	105	0	152
Total			132,934	78,846	5,523	5,351	0	-942
Mean cfs			---	2,628	184	178	0	-31
Acre-feet			132,934	156,398	10,955	10,611	0	-1,898

1/ Pacheco Tunnel, San Felipe Split; Santa Clara 10,290 AF, Casa De Fruta 0 AF, and San Benito 321 AF.

* 25 hr day - used 2.0661 to convert cfs to AF

Table 16. San Luis Field Division Plant Data

(in acre-feet)

November 2012

Date	Dos Amigos Pumping Plant		Gianelli Pumping - Generating Plant				San Felipe Project
	Total Pumping	SWP Pumping 1/ 2/	Total Generation	SWP Generation 1/ 2/	Total Pumping	SWP Pumping 1/ 2/	Federal
1	9,939	8,898	0	0	570	-14	197
2	9,951	8,909	0	0	0	0	198
3	9,928	8,888	0	0	0	0	180
4	10,347	9,262	0	0	0	0	193
5	6,024	5,004	0	0	0	0	337
6	5,428	4,398	0	0	4,364	4,364	382
7	6,502	5,466	0	0	4,364	-19	367
8	5,749	4,710	0	0	8,727	-92	360
9	5,722	4,698	0	0	5,818	-2,948	333
10	7,610	6,539	0	0	4,364	-15	337
11	7,357	6,309	0	0	4,364	-14	354
12	6,638	5,610	0	0	4,364	-4,387	360
13	7,404	6,367	0	0	2,353	-2,007	363
14	7,527	6,496	978	978	0	0	382
15	6,993	5,966	3,352	3,352	0	0	449
16	8,193	7,162	3,327	3,327	0	0	458
17	8,133	7,069	3,298	3,298	0	0	442
18	7,499	6,436	0	0	0	0	373
19	7,206	6,146	0	0	7,046	7,046	418
20	7,289	6,227	0	0	12,972	12,972	432
21	7,472	6,419	0	0	9,956	9,956	430
22	7,214	6,166	0	0	8,688	345	422
23	7,378	6,306	0	0	8,688	4,294	418
24	7,149	6,102	0	0	8,688	349	417
25	6,595	5,538	0	0	8,688	357	410
26	7,786	6,728	0	0	8,688	365	396
27	7,223	6,158	0	0	8,678	365	351
28	7,544	6,480	0	0	9,349	1,072	325
29	6,703	5,666	0	0	12,853	4,622	319
30	7,307	6,246	0	0	12,816	5,632	208
Total	223,810	192,369	10,955	10,955	156,398	42,243	10,611

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping;
adjustments to SWP water shares are made to balance the mismatch.

2/ Provisional, subject to change.

Table 17. Consolidated State-Federal Los Banos Reservoir

Daily Operations

November 2012

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

Capacity 34,560 ac-ft

State of California

The Resources Agency

Department of Water Resources

State Water Project

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft)
					Spill	Outlet	
Oct 31	320.00	17,090					
1	320.00	17,090	0	0	0	0	0
2	320.00	17,090	0	0	0	0	0
3	319.98	17,080	-10	0	0	0	-10
4	319.98	17,080	0	0	0	0	0
5	319.97	17,076	-4	0	0	0	-4
6	319.97	17,076	0	0	0	0	0
7	319.96	17,072	-4	0	0	0	-4
8	319.92	17,055	-17	0	0	0	-17
9	319.91	17,050	-5	0	0	0	-5
10	319.90	17,046	-4	0	0	0	-4
11	319.88	17,038	-8	0	0	0	-8
12	319.88	17,038	0	0	0	0	0
13	319.88	17,038	0	0	0	0	0
14	319.87	17,033	-5	0	0	0	-5
15	319.86	17,029	-4	0	0	0	-4
16	319.87	17,033	4	2	0	0	0
17	319.86	17,029	-4	0	0	0	-4
18	319.86	17,029	0	0	0	0	0
19	319.85	17,025	-4	0	0	0	-4
20	319.85	17,025	0	0	0	0	0
21	319.85	17,025	0	0	0	0	0
22	319.84	17,021	-4	0	0	0	-4
23	319.83	17,016	-5	0	0	0	-5
24	319.83	17,016	0	0	0	0	0
25	319.83	17,016	0	0	0	0	0
26	319.82	17,012	-4	0	0	0	-4
27	319.81	17,008	-4	0	0	0	-4
28	319.81	17,008	0	0	0	0	0
29	319.83	17,016	8	4	0	0	0
30	319.86	17,029	13	7	0	0	-1
Total			-61	13	0	0	-87
Mean cfs			---	0	0	0	---
Acre-feet			-61	26	0	0	-87

Table 18. Consolidated State-Federal Little Panoche Reservoir

Daily Operations

November 2012

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Capacity: 5,580 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft)
					Spill	Outlet	
Oct 31	602.20	803					
1	Not Observed			0	0	0	0
2	Not Observed			0	0	0	0
3	Not Observed			0	0	0	0
4	Not Observed			0	0	0	0
5	Not Observed			0	0	0	0
6	Not Observed			0	0	0	0
7	Not Observed			0	0	0	0
8	Not Observed			0	0	0	0
9	602.20	803	0	0	0	0	0
10	Not Observed			0	0	0	0
11	Not Observed			0	0	0	0
12	Not Observed			0	0	0	0
13	Not Observed			0	0	0	0
14	Not Observed			0	0	0	0
15	Not Observed			0	0	0	0
16	Not Observed			0	0	0	0
17	Not Observed			0	0	0	0
18	Not Observed			0	0	0	0
19	Not Observed			0	0	0	0
20	Not Observed			0	0	0	0
21	Not Observed			0	0	0	0
22	Not Observed			0	0	0	0
23	Not Observed			0	0	0	0
24	Not Observed			0	0	0	0
25	Not Observed			0	0	0	0
26	Not Observed			0	0	0	0
27	Not Observed			0	0	0	0
28	Not Observed			0	0	0	0
29	Not Observed			0	0	0	0
30	602.20	803	0	0	0	0	0
Total			0	0	0	0	0
Mean cfs			---	0	0	0	---
Acre-feet			0	0	0	0	0

Table 19. Governor Edmund G. Brown California Aqueduct

San Luis Field Division, Monthly Deliveries

(In acre-feet)

November 2012

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		Structure			USBR	Transfer	DWR Recreation	USBR Recreation		
	No.	Structure									
2B	12	Check No. 12	66.71		185,635						
3A	San Luis Reservoir			Department of Parks and Recreation	0	10,290					
				San Felipe Division Santa Clara Water District	10,290						
				Casa de Fruita Santa Clara Water District	0						
				San Felipe Division San Benito Water District	321	321					
				Reach 3A Subtotal:	10,611						
3	O'Neill Forebay		70.85	Department of Parks and Recreation	0	10,611	0	0	0		
				Cattle Program	0						
				Department of Fish & Game	0						
			70.91 Thru	San Luis Water District	86	86					
				(Floodwater Inflow)							
				Reach 3 Subtotal:	86	86	0	0	0		
			Dos Amigos Pumping Plant	86.73	223,810						
4	14		89.03			2,980					
			Thru 94.06	San Luis Water District	2,980						
			89.66				361				
			Thru 89.67	Pacheco Water District	361						
			89.68	Panoche Water District	44	44					
			89.70	City of Dos Palos	75						
			Check No. 14	95.06							
	15		98.15			360					
			Thru 104.20	San Luis Water District	360		671				
			96.15								
			Thru 102.64	Panoche Water District	671						
				(Floodwater Inflow)							
			102.64	Broadview Water District	0						
			105.22			1,867					
			Thru 108.64	Westlands Water District	1,867						
			Check No.15	108.50							
				Reach 4 Subtotal:	6,358		6,358	0	0		
				San Felipe Division Total:	10,611						
				Pacheco Water District Total:	361	361	0	0	0		
				Broadview Water District Total:	0						
				City of Dos Palos Total:	75	715	0	0	0		
				SLWD Reach 4 Subtotal:	3,340						
				Panoche Water District Total:	715	715	0	0	0		
				SLWD Total:	3,426						
				Westlands WD Reach 4 Subtotal:	1,867	1,867	0	0	0		

Table 19. Governor Edmund G. Brown California Aqueduct

San Luis Field Division, Monthly Deliveries (Continued)

(In acre-feet)

November 2012

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		Mile			USBR	Transfer	DWR Recreation	USBR Recreation		
	No.	Structure									
5	16		110.52	(Reverse flow, Kings River)	0	3,973					
				Westlands Water District	3,973						
				Thru	0						
				122.05	0						
				Dept. of Fish and Game @ Lat. 4L	0						
	17		124.18	Dept. of Fish and Game @ Lat. 6L	0	2,046					
				Thru	0						
	18		133.81	Check No. 16	122.07	3,177					
				Westlands Water District	2,046						
				Thru	0						
				142.61	0						
				Pleasant Valley Pumping Plant	143.16	Westlands Water District	2,025	387			
				143.16	City of Coalinga	387					
				Check No. 18	143.23	11,608	0	0	0		
					Reach 5 Subtotal:						
6	19		145.26	GWF Energy	1	1,833	1/ 135				
				City of Huron	0						
				SWP Construction @ Lat. 24R	0						
				Kings County to Lemoore NAS Through WWD	135						
				Kings County through WWD 30L	0						
				Westlands Water District	1,833						
				Check No. 19	155.64	1,833	136	0	0		
					Reach 6 Subtotal:						
7	20		156.34	City of Huron	65	2,062					
				SWP Construction @ Lat. 24R	0						
				Thru	2,062						
				163.69	Kings County - WWD 31L-36L						
	21		164.69	Check No. 20	164.69	186					
				164.79	City of Avenal						
				167.04	Westlands Water District						
				Thru	994						
				171.67	Check No. 21	172.40	200,453				
					Reach 7 Total:	3,307	3,307				
					SWP Construction	1	0				
					Westlands WD Total:	17,977	17,977				
					City of Coalinga Total:	387	387				
					City of Huron Total:	65	65				
					Kings County to Lemoore NAS Through WWD	135	0	135	0		
					City of Avenal Total:	186	186	0	0		
					Total San Luis Field Division Deliveries:	33,939	33,803	136	0		

1/ SWP water, from County of Kings to Westlands Water District, Table A.

2/ Includes GWF Energy water and DWR construction water 22R.

Table 20. Consolidated State-Federal San Luis Canal 1/

Daily Operations

November 2012

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Date	Storage In Canal (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)		Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)
			Non- Project	Dos Amigos Pumping Plant	San Luis Water District Pools 14 & 15 2/	Panoche Water District Pools 14 & 15	Westlands Water District Pools 15 thru 21 3/	Flow Past Check 21	
Oct 31	28,430								
1	28,594	164	0	5,011	68	13	364	4,496	13
2	28,523	-71	0	5,017	68	13	364	4,502	-106
3	28,315	-208	0	5,005	68	13	364	4,490	-175
4	28,772	457	0	5,008	64	13	348	4,314	-39
5	28,313	-459	0	3,037	67	13	364	2,724	-100
6	28,060	-253	0	2,737	67	13	365	2,456	36
7	27,829	-231	0	3,278	67	13	365	2,941	-8
8	27,667	-162	0	2,898	76	13	344	2,601	54
9	27,568	-99	0	2,885	76	13	344	2,589	87
10	27,984	416	0	3,837	76	13	344	3,443	249
11	28,392	408	0	3,709	76	13	344	3,328	258
12	28,161	-231	0	3,347	76	13	344	3,003	-27
13	28,267	106	0	3,733	76	13	344	3,349	102
14	27,879	-388	0	3,795	76	13	344	3,405	-153
15	27,222	-657	0	3,526	96	15	286	3,164	-296
16	27,628	406	0	4,131	96	15	286	3,707	178
17	28,180	552	0	4,100	96	15	286	3,678	253
18	28,621	441	0	3,781	96	15	286	3,392	230
19	28,650	29	0	3,633	96	15	286	3,260	39
20	28,286	-364	0	3,675	96	15	286	3,298	-164
21	28,415	129	0	3,767	96	15	286	3,380	75
22	28,872	457	0	3,637	19	5	258	3,263	138
23	28,366	-506	0	3,720	19	5	258	3,338	-355
24	28,762	396	0	3,604	19	5	258	3,234	112
25	28,219	-543	0	3,325	19	5	258	2,983	-334
26	28,575	356	0	3,925	19	5	258	3,522	58
27	28,238	-337	0	3,642	19	5	258	3,267	-263
28	28,399	161	0	3,803	19	5	258	3,413	-27
29	28,967	568	0	3,379	49	19	353	3,032	360
30	28,837	-130	0	3,684	49	19	350	3,306	-25
Total		407	0	112,629	1,904	360	9,453	100,878	172
Mean cfs		---	0	3,754	63	12	315	3,363	6
Acre-feet		407	0	223,810	3,776	715	18,751	200,453	292

1/ San Luis Canal includes Pools 14 through 21 of the California Aqueduct.

2/ Includes 361 AF to Pacheco W.D., 75 AF to the City of Dos Palos and 3,340 AF to San Luis Water District.

3/ Includes 65 AF to the City of Huron, 186 AF to the City of Avenal, 387 AF to the City of Coalinga, 0 AF to Huron P&R @ 22R, 135 AF to Lemoore N.A.S. @ 29L, 1 AF to GWF @ 30L, 0 AF to DWR Water Truck at 22R, 0 AF to Kings County @ 30L, 0 AF to Broadview WD @ 3L, 0 AF to DFG @ 4L, 0 AF to Mendota Water Fowl Habitat Area @ 6L, 0 AF DFG @ 7L, 0 AF NonProject Water, 15,952 AF to Westlands Water District and 2,025 AF to Pleasant Valley Pumping Plant.

* 25 hr day - used 2.0661 to convert cfs to AF

Table 21. San Joaquin Field Division Plant Data

(in acre-feet)

November 2012

Date	Coastal Aqueduct					California Aqueduct			
	Las Perillas Pumping Plant	Badger Hill Pumping Plant	Devil's Den Pumping Plant	Bluestone Pumping Plant	Polonio Pass Pumping Plant	Buena Vista Pumping Plant	Teerink Pumping Plant	Chrisman Pumping Plant	Edmonston Pumping Plant
1	83	90	46	41	46	7,752	7,403	7,185	7,192
2	63	50	23	18	22	7,673	7,567	7,297	7,193
3	0	0	0	0	0	8,203	8,014	7,814	7,735
4	0	0	0	1	1	8,226	8,274	8,156	8,057
5	0	0	0	2	1	5,224	4,948	4,729	4,628
6	0	0	0	1	1	3,653	3,484	3,328	3,298
7	0	0	0	0	0	4,174	3,606	3,610	3,545
8	0	0	0	0	0	3,803	3,751	3,607	3,492
9	0	0	0	0	0	4,174	3,854	3,791	3,804
10	0	0	0	0	0	5,510	5,277	5,128	5,157
11	0	0	0	0	0	5,539	5,274	5,208	5,263
12	0	0	0	0	0	5,567	5,394	5,278	5,344
13	0	0	0	0	0	5,535	5,217	5,085	5,107
14	0	0	0	0	0	5,460	5,394	5,330	5,183
15	0	0	0	0	0	5,592	5,394	5,279	5,134
16	0	0	1	1	1	5,325	5,336	5,252	5,155
17	122	110	1	1	1	5,514	5,394	5,263	5,266
18	75	75	22	21	24	5,249	5,394	5,330	5,317
19	44	49	44	41	46	5,636	5,394	5,329	5,290
20	44	50	42	37	43	5,376	5,394	5,252	5,128
21	86	90	35	32	36	5,673	5,394	5,279	5,154
22	75	80	33	30	35	5,380	5,394	5,252	5,155
23	111	117	35	32	37	5,408	5,394	5,304	5,209
24	103	112	37	34	38	5,248	5,394	5,278	5,209
25	115	121	33	29	33	5,830	5,394	5,304	5,209
26	48	53	23	21	24	5,300	5,394	5,325	5,167
27	124	123	30	27	31	5,486	5,394	5,241	5,214
28	251	232	52	48	54	5,578	5,394	5,279	5,128
29	137	134	25	22	26	4,024	3,972	3,887	3,970
30	117	124	33	29	34	5,585	5,394	5,273	5,237
Total	1,598	1,610	515	468	534	166,697	162,281	158,673	156,940

Table 22. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries

(In acre-feet)

November 2012

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries							
	Beginning and Ending		Mile			Table A	USBR	Transfer	Yuba 3C	Other			
	No.	Structure											
7	21	Check No. 21	172.40		200,453								
8C	22			Empire West Side ID TL - A	66	66	836	214	2	1/ 15			
				172.66 County of Kings TL - A	0								
				Tulare Lake Basin WSD TL-A	851								
				175.18 Dudley Ridge WD - 1	214								
				177.54 Dudley Ridge WD - 1B	2								
				180.64 Tulare Lake Basin WSD - C	0								
				180.65 Dudley Ridge WD - 1A	87								
				182.99 Dudley Ridge WD - 2	6								
				183.00 Tulare Lake Basin WSD TL - B	126								
				County of Kings TL-B	0								
31A				184.00 Dudley Ridge WD - Paramount	0								
				184.63 Coastal Branch	1,598								
8D				184.78 Dudley Ridge WD - 3	0	309	0	0	0	0			
				Dudley Ridge Reach 8D Total:	309		836	0	0	141			
		Check No. 22	184.82										
9	23			189.69 Kern County Water Agency Lost Hills Water Dist. - 1	428	428	15	49	30	74			
				191.18 Kern County Water Agency Lost Hills Water Dist. - 2	15								
				194.22 Kern County Water Agency Lost Hills Water Dist. - 3	49								
				196.40 Kern County Water Agency Berrenda Mesa - 2	30								
				196.75 Kern County Water Agency Lost Hills Water Dist. - 4	74								
				K.C.W.A. Reach 9 Subtotal:	596								
				Check No. 23	197.05								
10A	24			201.24 Kern County Water Agency Lost Hills Water Dist. - 7	58	58	242	1	1,268	49			
				202.05 Kern County Water Agency Lost Hills Water Dist. - 5	242								
				205.26 Kern County Water Agency Lost Hills Water Dist. - 8	1								
				206.99 Kern County Water Agency Semitropic WSD - 3	1,268								
				Check No. 24	207.94								
				209.71 Kern County Water Agency Belridge Water Storage Dist. - 1A	49		3,337	2,516	2/ 1,300	4,895			
				209.78 Kern National Wildlife Refuge USBR BV-1B	3,337								
				Kern County Water Agency Buena Vista WSD 1B	698								
				209.80 KCWA Semitropic WSD	8,711								
				KCWA Semitropic WSD Penstocks	0								
				USBR Total:	3,337								
				K.C.W.A. Reach 10A Subtotal:	11,027	4,832	0	1,300	4,895	0			

1/ Conveyance of non-project water Art 55, from Ca. Dept. of Water Resources to Tulare Lake Basin WSD.

2/ Same landowner transfer DRWD to KCWA.

Table 22. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

November 2012

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending		Mile			Table A	USBR	Transfer	Yuba 3C	Other		
	No.	Structure										
11B	25		210.75	Kern County Water Agency Belridge - 2	0	388	388	926	125	0		
			214.11	Kern County Water Agency Belridge - 3	388							
			216.62	Kern County Water Agency Belridge - 4	0							
			217.13	Kern County Water Agency Belridge - 5A-C	926							
				Kern County Water Agency Belridge - 5D	125							
		Check No. 25	217.79									
				K.C.W.A. Reach 11B Subtotal:	1,439	1,439	0	0	0	0		
12D	26		219.58	Kern County Water Agency Belridge - 6	0	389	389	4/ 4,724	0	0		
				Kern County Water Agency West Kern - 3	389							
		Check No. 26	224.92									
12E	27		230.37	Kern County Water Agency Buena Vista - 6	0	7,214	7,214	4/ 4,724	0	0		
		Check No. 27	231.73									
	28		235.75	Kern County Water Agency Buena Vista - 2	0							
			238.04	Kern County WA CVC	11,938							
				DRWD CVC	0							
				Tulare Co.	0							
				Lower Tule River	0							
				Fresno Co.	0							
				Pixley ID	0							
				Hacienda DWR Wells	0							
	Check No. 28	238.11										
				1/ Arvin Edison Total:	0	0	0	0	0	0		
				Reach 12E Subtotal:	11,938	7,214	0	4,724	0	0		
13B	29		238.19	Kern Water Bank Inflow	0	513	513	2/ 1,000	0	0		
				Kern Water Bank Outflow	0							
			241.02	Kern River Intertie (inflow)	0							
			242.85	KCWA Buena Vista WSD - 7	0							
				KCWA Buena Vista WSD - 5	1,513							
			243.09	Kern County Water Agency Buena Vista - 3	0							
	Check No. 29	244.54										
	30		249.85	Kern County Water Agency Buena Vista - 4	928	928	928	0	0	1,000		
			Buena Vista Pumping Plant	250.99	166,697							
				K.C.W.A. Reach 13B Subtotal:	2,441							
14A	31		254.47	Kern County Water Agency West Kern - 2	0			3/ 102	0	0		
			256.11	Kern County Water Agency Wheeler Ridge-Maricopa - 2	102							

1/ Arvin Edison Contractors include Rag Gulch WD, Kern-Tulare WD, Fresno County, Hills Valley ID, Tri Valley WD, Tulare County, Lower Tule River ID, and Pixley ID.

2/ Same landowner transfer TLBWS to KCWA.

3/ Friant recirculation water (Madera ID=1,000 AF, Shafter- Wasco ID=900, and Exeter ID=600 AF) to KCWA.

4/ Same landowner transfer DRWD to KCWA.

Table 22. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

November 2012

Reach No.	Operating Pool		Turnout	Total Diver-sions	Deliveries					
	Beginning and Ending				Table A	USBR	Transfer	Yuba 3C	Other	
	No.	Structure	Mile							
14A	31	Check No. 31	256.14							
	32		258.61	Kern County Water Agency Wheeler Ridge-Maricopa - 3	71				1/ 71	
			260.44	Kern County Water Agency Wheeler Ridge-Maricopa - 4	400				1/ 400	
		Check No. 32	261.72							
				KCWA Reach 14A Subtotal:	573	0	0	0	573	
14B	33		264.42	Kern County Water Agency Wheeler Ridge-Maricopa - 5	829				1/ 829	
			266.91	Kern County Water Agency Wheeler Ridge-Maricopa - 6	200				1/ 200	
	Check No. 33	267.36								
	34		270.24	Kern County Water Agency Wheeler Ridge-Maricopa - 7	800				1/ 800	
		Check No. 34	271.27							
				Reach 14B Total:	1,829	0	0	0	1,829	
14C	35		272.39	Kern County Water Agency Wheeler Ridge-Maricopa - 8	522	424			1/ 98	
			276.09	Kern County Water Agency Wheeler Ridge-Maricopa - 9	418	418				
			277.30	Kern County Water Agency Arvin-Edison WSD	2,499		2,499			
				Reach 14C Total:	3,439	842	0	2,499	0	
	Teerink Pumping Plant	278.13			162,281					
15A	36		279.02	Kern County Water Agency Wheeler Ridge-Maricopa - 9A	24	24				
			280.06	Kern County Water Agency Wheeler Ridge-Maricopa - 10	229	229				
				Reach 15-A Total:	253	253	0	0	0	
	Chrisman Pumping Plant	280.36			158,673					
16A	37		282.06	Kern County Water Agency Wheeler Ridge-Maricopa - 11	0					
		Check No. 37	283.95							
	38		285.01	Kern County Water Agency Wheeler Ridge-Maricopa - 12	24	24				
			286.39	Kern County Water Agency Wheeler Ridge-Maricopa - 13A	28	28				
			287.06	Kern County Water Agency Wheeler Ridge-Maricopa - 13	0					
	Check No. 38	287.09								
	39		287.62	Kern County Water Agency Wheeler Ridge-Maricopa - 13B	10	10				
		Check No. 39	290.21							
	40		291.26	Kern County Water Agency Wheeler Ridge-Maricopa - 14	392	392				
			293.07	Kern County Water Agency Wheeler Ridge-Maricopa - 15	11	11				
				Kern County Water Agency Tehachapi Cummings CWD	4	4				
				K.C.W.A. Reach 16A Subtotal:	469	469	0	0	0	
17E	Edmonston Pumping Plant	293.45			156,940					

1/ Friant recirculation water (Madera ID=1,000 AF, Shafter- Wasco ID=900, and Exeter ID=600 AF) to KCWA.

Table 23. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries (Coastal Branch)

(In acre-feet)

November 2012

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		No.			Table A	USBR	Transfer	Yuba 3C	Other	
	No.	Structure	Mile								
31A	C-1	Coastal Branch Control	0.02		1,598						
		Las Perillas Pumping Plant	1.16		1,598						
	C-2		3.79	Green Valley Water District	0						
		Badger Hill Pumping Plant	4.27		1,610						
	C-3	Coastal Check No. 3	7.21								
	C-4		9.34	Castaic Lake WA (Devil's Den WD #1)	0						
		Coastal Check No. 4	9.34								
	C-5	Coastal Check No. 5	12.20								
	C-6		13.30	Kern County Water Agency Berrenda Mesa - 3	34					1/ 34	
			14.83	Kern County Water Agency Berrenda Mesa - 1	977					1/ 977	
				Kern County Water Agency Berrenda Mesa - PO	0						
		Devil's Den Pumping Plant	14.86		515						
				K.C.W.A. Reach 31A Subtotal:	1,011	0	0	0	0	1,011	
				K.C.W.A. Total:	35,404	17,475	0	8,523	4,895	4,511	
33A	C-7	Bluestone Pumping Plant	19.05		468						
	C-8	Polonio Pass Pumping Plant	26.54		534						
	C-9	Tank Site 1	27.81	(CCWA) Polonio Pass Treatment Plant							
	C-10	Shandon T.O.	38.23	Santa Barbara County (CCWA)	459	459					
		Tank Site 2	58.63	Central Coast:	0						
34	C-11	Chorro Valley T.O.	69.31	San Luis Obispo County (CCWA)	80	80					
		Energy Dissipater	78.12								
		Lopez T.O.	85.86	SLOCFC & WCD	0						
				CCWA Total:	539	539	0	0	0	0	
35	C-12	Guadalupe T.O.	102.70	SBCFC & WCD	0						
		Santa Maria T.O.	107.43	SBCFC & WCD	0						
		So. Cal. Water T.O.	109.20	SBCFC & WCD	0						
38				SBCFC & WCD Total:	0						
		Tank Site 5	115.42								

1/ Same landowner transfer AVEK to KCWA.

Table 24. Southern Field Division Plant Data

(in acre-feet)

November 2012

Date	West Branch						East Branch						East Branch Extension				
	Oso Pumping Plant	Warne Powerplant			Castaic Powerplant		Alamo Powerplant			Pearblossom Pumping Plant	Mojave Siphon Powerplant			Devil Canyon Powerplant Generation	Green Spot	Crafton Hills	Cherry Valley
		Generation	Leakage	Gorman Crk. Improvement Channel	Generation 1/	Pump-back 1/	Generation	Bypass	Tehachapi Afterbay		Generation	Leakage	Bypass Flume				
1	2,930	2,906	0	0	3,624	0	0	0	4,066	3,898	3,451	0	0	3,412	62	60	32
2	2,845	2,906	0	0	2,260	0	0	0	4,041	3,898	3,802	0	0	3,409	62	60	32
3	3,465	2,905	0	0	121	0	0	0	4,017	4,011	3,931	0	0	4,014	66	60	32
4	3,838	3,000	0	0	318	0	0	0	4,039	3,901	4,152	0	0	3,440	67	60	32
5	3,337	3,137	0	0	3,798	349	0	0	1,103	984	927	0	0	3,188	67	60	32
6	3,175	3,142	0	0	4,303	0	0	0	0	0	11	0	0	2,734	66	60	32
7	3,362	3,139	0	0	3,791	0	0	0	50	0	0	13	0	2,516	67	60	32
8	3,241	3,135	0	0	3,988	724	0	0	223	0	0	23	0	2,679	70	60	32
9	2,982	3,135	0	0	3,838	0	0	0	738	377	0	15	0	2,669	75	60	32
10	1,703	1,749	0	0	4,153	0	0	0	3,512	3,525	2,966	0	0	2,531	86	60	32
11	1,279	1,715	0	0	123	0	0	0	3,992	3,895	3,960	0	0	2,463	96	74	32
12	1,279	1,478	0	0	188	0	0	0	3,884	3,898	3,678	0	0	2,190	90	70	32
13	1,289	1,545	0	0	1,761	0	0	0	3,570	3,525	3,760	0	0	2,319	70	60	32
14	1,452	1,537	0	0	301	0	0	0	3,289	3,388	3,543	0	0	2,286	73	60	32
15	1,378	643	0	0	1,676	0	0	0	3,678	3,581	3,345	0	0	2,384	71	60	32
16	1,541	1,460	0	0	434	0	0	0	3,446	3,307	3,008	0	0	2,421	80	75	32
17	1,586	1,738	0	0	451	0	0	0	3,097	3,463	3,159	0	0	2,388	73	68	32
18	2,024	1,395	0	0	1,639	0	0	0	3,041	2,966	3,065	0	0	2,427	65	60	32
19	2,559	2,482	0	0	4,089	0	0	0	2,661	2,633	2,477	0	0	2,286	66	60	32
20	3,121	3,145	0	0	3,136	0	0	0	1,453	1,654	1,602	0	0	1,296	63	60	32
21	3,293	3,148	0	0	3,278	0	0	0	1,587	1,701	1,634	0	0	1,078	68	60	32
22	3,141	3,145	0	0	2,276	0	0	0	1,785	1,982	1,666	0	0	1,238	76	60	32
23	3,195	3,146	0	0	3,524	0	0	0	1,661	1,731	1,989	0	0	1,294	81	60	32
24	3,245	3,149	0	0	1,253	0	0	0	1,463	1,570	1,592	0	0	1,175	82	60	32
25	3,503	3,146	0	0	653	0	0	0	1,438	1,760	1,638	0	0	1,150	73	60	32
26	2,264	3,065	0	0	1,533	0	0	0	2,727	2,934	3,021	0	0	1,253	65	59	32
27	3,567	3,155	0	0	5,721	0	0	0	1,183	1,611	1,603	0	0	1,235	64	58	32
28	3,835	3,141	0	0	4,663	0	0	0	1,026	1,947	1,897	0	0	1,207	64	58	32
29	2,854	3,088	0	0	5,342	0	0	0	830	1,611	1,643	0	0	1,260	64	58	32
30	4,644	3,150	0	825	2,630	0	0	0	316	382	399	0	0	1,003	64	58	32
Total	81,927	77,625	0	825	74,865	1,073	0	0	67,916	70,133	67,919	51	0	64,945	2,136	1,839	960

1/ Values supplied by LADWP, not verified by DWR.

Table 25. Pyramid Lake
Daily Operation

Capacity: 171,200 ac-ft

(in acre-feet except as noted)

November 2012

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow				Outflow				Computed Losses (-) And Gains (+)	
				Project			Natural	Project		To Piru Creek			
				Castaic Powerplant Pumpback 1/	Warne Power-plant	Gorman Creek Improv. Channel	Stream Flow	Castaic Powerplant Generation 1/	Recrea-tion Deliveries	Natural	Del. To United W.A.		
Oct 31	2,573	164,030											
1	2,573	163,363	-667	0	2,906	0	9	3,624	0	14	6	62	
2	2,573	163,866	503	0	2,906	0	9	2,260	0	14	10	-128	
3	2,575	166,592	2,726	0	2,905	0	9	121	0	14	20	-33	
4	2,577	169,205	2,613	0	3,000	0	9	318	0	14	30	-34	
5	2,577	168,755	-450	349	3,137	0	9	3,798	0	14	50	-83	
6	2,576	167,345	-1,410	0	3,142	0	10	4,303	0	14	69	-176	
7	2,575	166,592	-753	0	3,139	0	10	3,791	0	14	89	-8	
8	2,575	166,400	-192	724	3,135	0	10	3,988	0	14	109	50	
9	2,574	165,371	-1,029	0	3,135	0	11	3,838	0	14	119	-204	
10	2,572	162,835	-2,536	0	1,749	0	11	4,153	0	15	159	31	
11	2,574	164,283	1,448	0	1,715	0	11	123	0	15	169	29	
12	2,574	165,409	1,126	0	1,478	0	11	188	0	15	169	9	
13	2,574	164,852	-557	0	1,545	0	12	1,761	0	15	169	-169	
14	2,575	165,790	938	0	1,537	0	12	301	0	15	169	-126	
15	2,574	164,548	-1,242	0	643	0	12	1,676	0	16	169	-36	
16	2,574	165,384	836	0	1,460	0	12	434	0	16	169	-17	
17	2,575	166,502	1,118	0	1,738	0	12	451	0	16	168	3	
18	2,575	166,019	-483	0	1,395	0	12	1,639	0	16	158	-77	
19	2,574	164,245	-1,774	0	2,482	0	13	4,089	0	16	158	-6	
20	2,573	164,005	-240	0	3,145	0	13	3,136	0	16	158	-88	
21	2,573	163,766	-239	0	3,148	0	13	3,278	0	16	158	52	
22	2,574	164,447	681	0	3,145	0	13	2,276	0	16	149	-36	
23	2,573	163,829	-618	0	3,146	0	13	3,524	0	16	129	-108	
24	2,575	165,612	1,783	0	3,149	0	13	1,253	0	16	109	-1	
25	2,577	167,997	2,385	0	3,146	0	13	653	0	16	99	-6	
26	2,578	169,411	1,414	0	3,065	0	13	1,533	0	16	79	-36	
27	2,576	166,770	-2,641	0	3,155	0	13	5,721	0	16	60	-12	
28	2,574	165,156	-1,614	0	3,141	0	13	4,663	0	16	30	-59	
29	2,572	162,873	-2,283	0	3,088	0	13	5,342	0	16	20	-6	
30	2,574	164,283	1,410	0	3,150	825	13	2,630	0	16	0	68	
Total				253	1,073	77,625	825	347	74,865	0	457	3,150	-1,145

1/ Values supplied by LADWP, not verified by DWR.

Table 26. Elderberry Forebay

Daily Operation
(in acre-feet except as noted)

Capacity: 32,476 ac-ft

November 2012

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow		Computed Losses (-) And Gains (+)
				Castaic Powerplant Generation 1/	Natural	Castaic Powerplant Pumpback 1/	To Castaic Lake	
							Natural	Project 1/
Oct 31	1516.76	21,881						
1	1514.58	20,990	-891	3,624	0	0	4,390	-125
2	1510.33	19,311	-1,679	2,260	0	0	3,984	45
3	1507.82	18,355	-956	121	0	0	1,030	-47
4	1508.52	18,619	264	318	0	0	0	-54
5	1511.26	19,672	1,053	3,798	0	349	0	2,435
6	1514.35	20,894	1,222	4,303	0	0	0	3,695
7	1512.04	19,978	-916	3,791	0	0	0	-670
8	1511.16	19,633	-345	3,988	0	724	0	3,607
9	1511.67	19,832	199	3,838	0	0	0	3,639
10	1512.42	20,127	295	4,153	0	0	0	3,858
11	1512.67	20,226	99	123	0	0	0	-24
12	1513.04	20,373	147	188	0	0	0	-41
13	1517.66	22,254	1,881	1,761	0	0	0	120
14	1513.70	20,636	-1,618	301	0	0	0	24
15	1508.79	18,722	-1,914	1,676	0	0	0	-10
16	1506.21	17,754	-968	434	0	0	0	4
17	1507.53	18,246	492	451	0	0	0	41
18	1511.72	19,852	1,606	1,639	0	0	0	-33
19	1515.23	21,254	1,402	4,089	0	0	0	0
20	1512.60	20,199	-1,055	3,136	0	0	0	0
21	1510.94	19,548	-651	3,278	0	0	0	-1
22	1507.97	18,411	-1,137	2,276	0	0	0	1
23	1509.56	19,015	604	3,524	0	0	0	56
24	1506.21	17,754	-1,261	1,253	0	0	0	-41
25	1505.57	17,519	-235	653	0	0	0	-7
26	1507.23	18,134	615	1,533	0	0	0	2
27	1512.88	20,309	2,175	5,721	0	0	0	12
28	1514.62	21,006	697	4,663	0	0	0	6
29	1517.34	22,121	1,115	5,342	0	0	0	4
30	1512.89	20,313	-1,808	2,630	0	0	0	2
Total				-1,568	74,865	0	1,073	0
								-85

1/ Values supplied by LADWP, not verified by DWR.

Table 27. Castaic Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 323,699 ac-ft

November 2012

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow			Computed Losses (-) And Gains (+)	
				From Elderberry Forebay 1/		Natural	Deliveries	Disposition of Natural Inflows		
				Natural	Project					
Oct 31	1473.25	238,029								
1	1473.81	239,082	1,053	0	4,390	0	2,565	0	0 -772	
2	1474.65	240,667	1,585	0	3,984	0	2,565	0	0 166	
3	1474.06	239,553	-1,114	0	1,030	0	2,270	0	0 126	
4	1472.82	237,221	-2,332	0	0	0	2,346	0	0 14	
5	1473.09	237,728	507	0	2,435	0	2,547	0	0 619	
6	1473.69	238,856	1,128	0	3,695	0	2,495	0	0 -72	
7	1474.49	240,365	1,509	0	4,037	0	2,522	0	0 -6	
8	1475.17	241,651	1,286	0	3,607	0	2,355	0	0 34	
9	1475.94	243,112	1,461	0	3,639	0	2,028	0	0 -150	
10	1476.98	245,092	1,980	0	3,858	0	1,872	0	0 -6	
11	1476.02	243,264	-1,828	0	0	0	1,850	0	0 22	
12	1474.98	241,291	-1,973	0	0	0	1,955	0	0 -18	
13	1473.82	239,101	-2,190	0	0	0	2,119	0	0 -71	
14	1473.61	238,706	-395	0	1,943	0	2,346	0	0 8	
15	1474.21	239,836	1,130	0	3,580	0	2,240	0	0 -210	
16	1473.82	239,101	-735	0	1,406	0	1,703	0	0 -438	
17	1472.86	237,296	-1,805	0	0	0	1,722	0	0 -83	
18	1471.94	235,574	-1,722	0	0	3	1,775	0	0 50	
19	1472.61	236,828	1,254	0	2,687	3	1,495	0	0 59	
20	1474.01	239,459	2,631	0	4,191	3	1,066	0	0 -497	
21	1475.41	242,106	2,647	0	3,928	3	1,234	0	0 -50	
22	1476.53	244,234	2,128	0	3,414	3	1,262	0	0 -27	
23	1477.41	245,914	1,680	0	2,976	3	1,331	0	0 32	
24	1478.05	247,139	1,225	0	2,473	3	1,330	0	0 79	
25	1477.74	246,545	-594	0	881	3	1,342	0	0 -136	
26	1477.41	245,914	-631	0	920	3	1,497	0	0 -57	
27	1478.41	247,830	1,916	0	3,558	3	1,350	0	0 -295	
28	1479.81	250,526	2,696	0	3,972	3	1,335	0	0 56	
29	1481.45	253,705	3,179	0	4,231	3	1,183	0	0 128	
30	1483.17	257,062	3,357	0	4,440	3	1,013	0	0 -73	
Total				19,033	0	75,275	39	54,713	0	-1,568

1/ Values supplied by LADWP, not verified by DWR.

Table 28. Governor Edmund G. Brown California Aqueduct

Southern Field Division, Monthly Deliveries (West Branch)

(In acre-feet)

November 2012

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		No.			Table A	Rec.	Table A Flex	Local	Article 14B	
	No.	Structure	Mile								
29A	42	Oso Pumping Plant	1.49		81,927						
29F	W2	Quail Lake	5.02	Antelope Valley-East Kern Water Agency	Re-moved	3,150	19	0	0	0	
		Quail Lake Embankment	7.82	Antelope Valley-East Kern Water Agency	Stub						
29G		Warne Power Plant	14.07	(825 AF of flow through Gorman Creek Imp. Channel)	77,625						
29H	W3	Pyramid Lake		USFS		3,150	19	0	0	0	
				Pyramid Recreation (T300)	0						
29J	W4	Pyramid Dam	17.10	United WA (T300)	3,150						
		Castaic Power Plant	25.82	California State Park Piru Fish (T300)	0						
30 1/	W5	Elderberry Forebay									
		Forebay Dam	28.12								
		Castaic Lake		California State Park							
		Castaic Dam	31.47	Castaic Lake Recreation (T301)	19						
		Castaic Lake Outlet	31.55	MWDSC 78" & 132" (T302)	51,885	51,885	19	0	0	0	
				Castaic Lake WA 18", 24" & 54" (T303)	0						
				Castaic Lake WA Rio Vista T.P. (T304)	2,508						
				MWD-Ventura Co. WPD (T302)	301						
					0						
				Disposition of Natural inflows	0						
				Releases to Castaic Lagoon	0						
				Reach 30 Subtotal:	54,713	54,694	19	0	0	0	
	W6	Castaic Lagoon		California State Park Recreation to Lagoon (T353)	0						
		Castaic Lagoon Outlet	31.87		180						

1/ Reach 30 actually terminates at mile 31.50. It is shown here as including the outlet works at mile 31.55.

All deliveries from the outlet works and from the Lagoon are billed to Reach 30.

2/ Value Supplied by LADWP, not verified by DWR.

Table 29. Silverwood Lake

Daily Operation
(in acre-feet except as noted)

Capacity: 74,970 ac-ft

November 2012

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow					Computed Losses (-) And Gains (+)	Las Flores Ranch Exchange 1/	
				Mojave Siphon Power-plant	Mojave Bypass Flume	Natural Stream Flow	Project			Del. To Mojave W.A.	Natural To Mojave River			
Oct 31	3352.19	72,255												
1	3352.19	72,255	0	3,451	0	0	4	1	3,412	0	0	-34	0	
2	3352.64	72,686	431	3,802	0	0	4	0	3,409	0	0	42	0	
3	3352.52	72,571	-115	3,931	0	0	4	0	4,014	0	0	-28	0	
4	3353.25	73,272	701	4,152	0	0	4	1	3,440	0	0	-6	0	
5	3350.98	71,102	-2,170	927	0	0	4	0	3,188	0	0	95	0	
6	3348.11	68,409	-2,693	11	0	0	3	0	2,734	0	0	34	0	
7	3345.28	65,809	-2,600	13	0	0	1	1	2,516	0	0	-95	0	
8	3342.44	63,253	-2,556	23	0	0	1	0	2,679	0	0	101	0	
9	3339.47	60,638	-2,615	15	0	0	2	0	2,669	0	0	41	0	
10	3339.94	61,048	410	2,966	0	0	1	0	2,531	0	0	-24	0	
11	3341.57	62,481	1,433	3,960	0	0	1	0	2,463	0	0	-63	0	
12	3343.28	64,004	1,523	3,678	0	0	2	0	2,190	0	0	37	0	
13	3345.00	65,554	1,550	3,760	0	0	1	0	2,319	0	0	110	0	
14	3346.35	66,786	1,232	3,543	0	0	2	0	2,286	0	0	-23	0	
15	3347.36	67,715	929	3,345	0	0	2	1	2,384	0	70	41	0	
16	3347.89	68,205	490	3,008	0	0	1	1	2,421	0	99	4	0	
17	3348.48	68,753	548	3,159	0	0	1	0	2,388	0	153	-69	0	
18	3348.93	69,173	420	3,065	0	0	1	0	2,427	0	202	-15	0	
19	3348.84	69,089	-84	2,477	0	0	1	0	2,286	0	202	-72	0	
20	3348.93	69,173	84	1,602	0	0	1	0	1,296	0	204	-17	0	
21	3349.32	69,538	365	1,634	0	0	1	1	1,078	0	206	17	0	
22	3349.43	69,641	103	1,666	0	0	1	0	1,238	0	207	-117	0	
23	3350.71	70,843	1,202	1,989	0	0	1	0	1,294	0	205	713	0	
24	3350.73	70,857	14	1,592	0	0	1	0	1,175	0	205	-197	0	
25	3350.45	70,601	-256	1,638	0	0	2	0	1,150	0	205	-537	0	
26	3352.05	72,121	1,520	3,021	0	0	1	0	1,253	0	205	-42	0	
27	3352.30	72,360	239	1,603	0	0	2	0	1,235	0	210	83	0	
28	3352.72	72,762	402	1,897	0	0	2	0	1,207	0	210	-76	0	
29	3352.89	72,926	164	1,643	0	0	2	1	1,260	0	210	-6	0	
30	3352.13	72,197	-729	399	0	0	2	0	1,003	0	210	87	0	
Total				-58	67,970	0	0	57	7	64,945	0	3,003	-16	0

1/ Project water delivered from Mojave Siphon in exchange for like amount of natural stream flow.

Table 30. Lake Perris

Daily Operation

(in acre-feet except as noted)

Capacity: 131,452 ac-ft

November 2012

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow 1/	Outflow 2/	Computed Losses (-) Gains (+) 1/
Oct 31	1562.28	73,129				
1	1562.36	73,279	150		104	
2	1562.45	73,447	168		105	
3	1562.86	74,216	769		104	
4	1562.28	73,129	-1,087		104	
5	1562.77	74,047	918		124	
6	1562.80	74,103	56		104	
7	1562.88	74,253	150		105	
8	1562.72	73,953	-300		104	
9	1562.80	74,103	150		105	
10	1562.75	74,009	-94		104	
11	1562.88	74,253	244		105	
12	1562.72	73,953	-300		103	
13	1562.42	73,391	-562		116	
14	1562.61	73,747	356		105	
15	1562.58	73,691	-56		104	
16	1562.50	73,541	-150		104	
17	1562.66	73,840	299		104	
18	1562.66	73,840	0		104	
19	1562.58	73,691	-149		118	
20	1562.50	73,541	-150		103	
21	1562.66	73,840	299		100	
22	1562.45	73,447	-393		100	
23	1562.86	74,197	750		100	
24	1562.79	74,068	-129		100	
25	1562.58	73,691	-377		100	
26	1562.58	73,691	0		110	
27	1562.75	74,009	318		100	
28	1562.83	74,159	150		100	
29	1562.88	74,253	94		100	
30	1562.88	74,253	0		100	
Total			1,124	5,613	3,139	-1,350

1/ Readings are not taken on a daily basis. End of month only.

2/ Includes deliveries to MWD from Reach 28J and recreation water to California State Park at Lake Perris.

Table 31. Governor Edmund G. Brown California Aqueduct

Southern Field Division, Monthly Deliveries (East Branch)

(In acre-feet)

November 2012

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		No.			Table A	Rec.	Article 56C	Transfer	Local	
	No.	Structure	Mile								
17E	40	Edmonston Pumping Plant	293.45		156,940						
	41		298.65	KCWA Tej.-Cas	Stub						
17F		Check No. 41	303.41								
18A	42		304.99	AVEK WA-Temp for TEA construction (T389)	0		55				
		Check No. 42	304.99								
	43	Alamo Powerplant	305.73	(Includes 0 AF generation, 0 AF plant bypass, and 67,916 AF Tehachapi Bypass)	67,916						
			306.71	AVEK 305th Street West (T287)	0						
19			308.05	AVEK 294th Street West (T267)	55		818				
		Check No. 43	309.70								
	44		311.84	LADWP Connection	0						
			313.50	AVEK 245th Street West (T269)	0						
	45	Check No. 44	314.81								
			314.93	AVEK 235th Street West (T270)	0						
	46		315.57	AVEK 225th Street West (T271)	0						
		Check No. 45	319.74								
			Antelope Valley-East Kern WA Fairmont (T272)		818		42				
			Mojave Water Agency Fairmont (T272)		42						
20A		Check No. 46	323.84				915	0	0	0	
	47	Check No. 47	326.77								
	48		326.91	Antelope Valley-East Kern WA Willow Springs (T273)	0						
			329.65	Antelope Valley-East Kern WA 120th Street West	Removed						
	49	Check No. 48	330.82								
20B	50	Check No. 49	335.93				1,373	13			
			336.73	Antelope Valley-East Kern WA Quartz Hill (T274)	1,373						
			339.68	Antelope Valley-East Kern WA Rancho Vista (T275)	13						
	51		340.92	AVEK WA-Temp (T387)	0						
		Check No. 50	341.51								
	52		342.06	AVEK WA-Temp (T386)	0						
		Check No. 51	342.07								
			342.95	Antelope Valley-East Kern WA 30th Street West (T414)	0		39	1,077			
21	53	Check No. 52	343.74								
			346.98	Palmdale WD (T276) Temp.	1,077						
	54		348.14	Antelope Valley-East Kern WA Acton Treatment Plant (T277)	39						
		Check No. 53	348.17								
	55	Check No. 54	350.25								
22A	56	Check No. 55	352.70								
	57	Check No. 56	354.76								
			354.97	AVEK WA- Delivered through Littlerock Creek ID (T278)	0		202				
	58		354.97	Palmdale WD (T276)	0						
			354.97	Palmdale WD (T391)	0						
		Check No. 57	356.93								
			357.60	AVEK 95th Street East (T279)	0						
			357.72	AVEK 96th Street East (T280)	0						
			359.76	AVEK East Side Treatment Plant (T281)	202						

Table 31. Governor Edmund G. Brown California Aqueduct

Southern Field Division, Monthly Deliveries (East Branch, Continued)

(In acre-feet)

November 2012

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries								
	Beginning and Ending					Table A	Recre-ation	Article 56C	Trans-fer	Dry Purc 3	Gen. Conv.	Others		
	No.	Structure	Mile											
22B	58	Pearblossom Pumping Plant	360.61		70,133	1,083	6	2,511	7	1/ 3				
	59	Check No. 59	366.09											
	60		366.50		AVEK Big Rock Siphon (T368) 0									
	61	Check No. 60	373.94											
	62	Check No. 61	379.00											
	63		384.26		MWA (T282) 1,083									
	64	Check No. 63	389.20		MWA (T422) 6									
	65	Check No. 64	395.10											
	66		400.32		Mojave Water Agency									
			401.10		Morongo 24" & 42" (T284) 2,511									
23		Check No. 66	403.41			2,994	7	1,636	3,101	1/ 3				
		Mojave Siphon	405.58		Las Flores Ranch Exchange 0									
24		Mojave Siphon Powerplant	405.65											
			405.70		MWA CS DAM (T288) 2,994									
			407.65		California State Park Silverwood (T288) 7									
		Silverwood Lake			Creastline-Lake Arrowhead WA State Project Water (T289) 0									
			407.70		Non-Project Water (T289) 0									
25		San Bernardino Intake Tunnel				14,342	301	875	229	1/ 3				
26A		Devil Canyon Powerplant	412.73											
					MWD-Rialto (T290) 1,636									
					MWD-Rialto (T293) 14,342									
					MWD-Rialto (T294) 14,978									
					Desert Water Agency Transfer (T293) 531									
					Coachella Valley WD (T293) 8,774									
					Coachella Valley WD (T294) 5,708									
					San Gabriel Valley MWD (T290) 1,713									
					MWD EBX-1 (T290) 0									
					MWD EBX-1 (T291) 0									
EBX					San Bernardino Valley MWD (T290) 0	1/ 3	3,101	301	875	229				
					San Bernardino Valley MWD (T291) 3,101									
					San Bernardino Valley MWD (T403) 301									
					San Bernardino Valley MWD (T407) 878									
					San Gorgonio Pass WA (T413) 972									
28G			425.46											
28H					Coachella Valley (T295) 0	1/ 3	5,056	288	1,235	32				
					Coachella Valley (T296) 0									
					Desert Water Agency (T296) 5,056									
					MWD-SC Box Springs (T295) 288									
28J	69	Lake Perris	440.05		MWD-SC (T296) 1,235	1/ 3	157	700	546	689				
			442.00		MWD-SC (T297) 157									
					MWD-SC 54" & 78" (T299) 700									
					Coachella Valley (T2969) 1,426									
					Desert Water Agency (T299) 546									
					Ca. St. Pk. Lake Perris Rec. (T298) 32									
					MWD Total: 85,221			85,221	0	0	0	0		

1/ Crafton Hills Reservoir construction water (T428).

Table 32. Water Quality At Selected SWP Locations

November 2012

Constituent	Units	Thermalito Afterbay At Outlet	North Bay Aqueduct Barker Slough Pumping Plant	Delta Mendota Canal At McCabe Rd.	California Aqueduct					
					Banks Pumping Plant	O'Neill Forebay Outlet (Check 13)	Kettleman City (Check 21)	Near Hwy 119 (Check 29)	Tehachapi Afterbay (Check 41)	Devil Canyon Headworks
Alkalinity	mg/l as CaCO ₃	43	75	119	67	77	71	69	68	74
Antimony	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NR	NR
Arsenic	mg/l	<0.001	0.001	0.002	0.001	0.002	0.002	0.002	0.002	0.002
Beryllium	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Boron	mg/l	<0.1	0.1	0.4	0.1	0.2	0.1	0.1	0.1	0.1
Bromide	mg/l	<0.01	0.02	0.34	0.26	0.27	0.29	0.27	0.24	0.32
Calcium	mg/l	9	13	37	16	20	18	17	16	17
Chloride	mg/l as C	1.0	10.0	113.0	80.0	86.0	88.0	82.0	83.0	103.0
Chromium	mg/l as C	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper	mg/l	<0.001	<0.001	0	<0.001	0	0	0	0	0
Hardness	mg/l	38.000	70.000	171.000	91.000	106.000	95.000	92.000	90.000	99.000
Iron	mg/l	0.0	<0.005	0.0	0.0	0.0	<0.005	<0.005	<0.005	<0.005
Lead	mg/l as CaCO ₃	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium	mg/l	4.000	9.000	19.000	12.000	14.000	12.000	12.000	12.000	14.000
Manganese	mg/l	<0.005	0.005	<0.005	0.018	0.007	<0.005	<0.005	<0.005	<0.005
Nitrate + Nitrite	mg/l	0	0	2	0	1	1	0	0	0
Organic Carbon, Dissolved	mg/l	NR	2.100	3.100	2.200	2.300	3.500	2.200	2.300	2.200
Organic Carbon, Total	mg/l as N	NR	2.30	3.40	2.30	2.30	4.30	2.25	2.30	2.30
Phosphate-Ortho	mg/l as P	<0.01	0.04	0.13	0.06	0.07	0.09	0.06	0.06	0.08
Phosphorus-Total	mg/l	<0.01	0.07	0.17	0.06	0.09	0.12	0.08	0.08	0.09
Selenium	mg/l	<0.001	<0.001	0.001	<0.001	0.001	0.001	0.001	0.001	0.001
Sodium	mg/l	4	15	93	55	62	57	56	55	65
Specific Conductance	µS/cm	94	206	779	455	508	484	466	473	551
Sulfate	mg/l	2	10	87	24	36	29	27	26	27
Total Dissolved Solids	mg/l	67	120	449	252	282	272	258	260	305
Turbidity	NTU	2	16	7	2	2	3	2	1	1
Zinc	mg/l	<0.005	<0.005	0.005	<0.005	<0.005	0.007	0.005	<0.005	<0.005

mg/l milligrams per liter

µS/cm microSiemens per centimeter

NTU - nephelometric turbidity units

µg/l micrograms per liter

NR - Not Reported

Table 33. Water Quality At Selected Delta Stations

November 2012

Date	Antioch Tides (feet above mean sea level)		Flow In CFS			Electrical Conductivity in millSiemens/cm									Cl in mg/l
			Net Delta Outflow Index		Rio Vista	Antioch	Chipps Island	Emmaton		Jersey Point		Clifton Court	Cache Slough	Delta Mendota Canal	
	Highest High Tide	Actual High Half Tide	Mean Daily	Monthly Average				md	md	md	14dm	md	14dm	md	md
1	5.99	4.19	3,875	3,875	4,518	4.92	12.18	1.71	1.49	1.35	1.16	0.47	0.72	0.47	139
2	5.81	4.08	4,914	4,394	5,009	4.51	11.98	1.59	1.46	1.27	1.16	0.48	0.74	0.48	137
3	5.54	3.96	4,754	4,514	5,102	4.28	11.04	1.44	1.41	1.21	1.15	0.48	0.76	0.49	138
4	5.24	3.79	4,894	4,609	5,354	4.03	10.33	1.28	1.37	1.17	1.14	0.49	0.76	0.50	134
5	5.08	3.78	5,037	4,695	5,345	4.07	10.39	1.40	1.35	1.16	1.14	0.49	0.76	0.50	130
6	5.01	3.86	4,938	4,735	5,284	4.50	11.01	1.49	1.38	1.18	1.15	0.49	0.77	0.50	127
7	5.28	4.03	4,277	4,670	5,066	5.02	12.99	1.89	1.43	1.27	1.17	0.47	0.76	0.50	128
8	5.58	4.09	3,670	4,545	4,657	5.66	14.12	1.95	1.52	1.44	1.21	0.48	0.78	0.50	123
9	5.56	3.87	3,709	4,452	4,636	5.17	12.91	1.49	1.56	1.32	1.24	0.46	0.79	0.50	123
10	5.64	3.67	4,666	4,473	4,862	4.95	12.18	1.45	1.58	1.31	1.26	0.47	0.78	0.50	118
11	5.44	3.41	4,291	4,457	4,587	4.39	11.07	1.31	1.58	1.11	1.26	0.47	0.76	0.52	117
12	5.63	3.38	4,043	4,422	4,415	4.38	11.50	1.41	1.57	1.16	1.26	0.45	0.74	0.50	114
13	6.02	3.60	6,120	4,553	4,131	4.97	12.29	1.95	1.59	1.33	1.26	0.45	0.73	0.53	114
14	6.21	3.79	5,865	4,647	3,826	5.22	12.89	2.26	1.62	1.40	1.26	0.49	0.73	0.55	111
15	6.39	4.30	3,727	4,585	3,920	4.85	13.72	2.43	1.67	1.57	1.28	0.46	0.72	0.52	113
16	6.36	4.10	3,903	4,543	4,029	6.05	14.34	2.73	1.75	1.59	1.30	0.46	0.71	0.50	117
17	6.51	4.39	4,860	4,561	4,387	6.69	15.20	3.31	1.88	1.76	1.34	0.47	0.76	0.50	110
18	5.90	4.19	7,306	4,714	5,249	5.87	13.98	2.33	1.96	1.53	1.37	0.47	0.70	0.50	110
19	5.45	3.94	7,224	4,846	0	5.20	12.88	1.84	1.99	1.42	1.39	0.46	0.58	0.55	109
20	5.42	3.95	8,957	5,052	8,537	5.42	12.64	1.70	2.00	1.50	1.41	0.42	0.58	0.52	109
21	5.65	3.92	10,866	5,328	9,712	5.43	13.01	1.23	1.96	1.53	1.43	0.44	0.65	0.47	109
22	5.54	3.66	11,589	5,613	10,099	4.80	11.24	0.88	1.88	1.43	1.43	0.40	0.59	0.48	111
23	5.44	3.54	9,385	5,777	9,071	4.56	10.75	0.77	1.83	1.42	1.43	0.39	0.56	0.47	111
24	5.73	3.70	8,885	5,906	9,235	4.64	10.88	0.97	1.79	1.54	1.45	0.41	0.59	0.45	113
25	5.97	3.96	10,015	6,071	10,090	4.79	11.15	0.94	1.77	1.65	1.49	0.42	0.62	0.45	113
26	6.09	4.09	8,416	6,161	8,949	4.91	11.42	1.17	1.75	1.74	1.53	0.44	0.64	0.46	115
27	6.26	4.22	4,819	6,111	9,443	5.09	11.93	1.42	1.71	1.82	1.57	0.44	0.67	0.46	113
28	6.86	4.65	3,244	6,009	10,057	6.06	13.54	2.05	1.70	2.29	1.63	0.45	0.69	0.47	110
29	6.65	4.69	3,379	5,918	10,028	6.39	13.11	1.93	1.66	2.43	1.69	0.46	0.75	0.48	120
30	7.06	5.26	4,834	5,882	11,314	7.23	14.33	2.16	1.62	2.98	1.79	0.47	0.47	0.48	110

Clifton Court Cl(mg/l)=200X EC - 25

e = Estimated

f = Excess Delta conditions with fish concerns.

N.R. = No Record.

r = Excess delta conditions with export/inflow ratio concerns.

N.C. = Not computed due to insufficient data.

s = Balanced water conditions with storage withdrawals.

dm = Daily Mean

md = Mean Daily

Table 34. Pesticides, Herbicides, and Other Organic Substances Detected In the SWP

November 2012

Sampling Location	Sample Date 1/	Chemical Detected	Concentration µg/l 2/
North Bay Aqueduct At Barker Slough Pumping Plant	June 20, 2012	Metolachlor	0.70
California Aqueduct At Banks Pumping Plant	September 19, 2012	2,4-D	0.10
O'Neill Forebay Outlet Check 13	September 18, 2012	2,4-D	0.20
Delta Mendota Canal At McCabe Road	September 18, 2012	2,4-D	0.20
California Aqueduct Near Kettleman City (Check 21)	June 19, 2012	Simazine	0.02
California Aqueduct At Near Highway 119 (Check 29)	March 21, 2012	Diuron	1.70
California Aqueduct at Tehachapi Afterbay (Check 41)	June 20, 2012	Simazine	0.02
California Aqueduct At Devil Canyon 2nd Afterbay	June 20, 2012	Simazine	0.02

1/ Locations are normally sampled during March, June, and September. Monthly reports will include data for the month in which samples were most recently taken.

2/ Micrograms per liter.

Table 35. Oroville and Delta Field Divisions Energy Data

(in kWh)

November 2012

Date	Oroville Thermalito Complex		Barker Slough Pumping Plant	Cordelia Pumping Plant Load	Banks Pumping Plant		South Bay Pumping Plant Load	Del Valle Pumping Plant Load
	Generation	Load			Total Load	SWP Load		
1	4,350,093	286	29,474	33,743	1,416,128	1,416,128	129,007	644
2	4,355,824	11	29,258	35,938	1,034,904	1,034,904	127,645	711
3	4,345,638	11	28,263	31,288	1,060,736	1,060,736	147,510	616
4	3,786,167	0	32,331	36,111	1,144,904	1,144,904	108,769	516
5	4,595,866	0	35,604	39,383	844,784	844,784	58,097	431
6	4,554,913	0	30,427	32,189	1,085,992	1,085,992	47,699	441
7	4,446,574	22	31,005	35,422	1,087,288	1,087,288	37,867	443
8	4,892,899	33	28,598	31,747	1,352,744	1,352,744	40,267	661
9	4,902,733	0	30,298	34,917	1,266,192	1,266,192	5,953	777
10	4,876,113	0	28,042	32,727	913,976	913,976	0	866
11	3,797,068	11	26,943	33,910	909,096	909,096	0	929
12	4,888,631	0	28,025	34,138	1,121,720	1,121,720	0	885
13	4,830,210	0	33,997	40,394	911,040	911,040	0	845
14	5,168,779	0	34,694	38,906	1,784	1,784	0	845
15	4,872,494	0	33,812	42,418	227,256	227,256	0	826
16	4,900,555	253	32,650	40,039	1,051,424	1,051,424	851	803
17	4,555,716	1,012	25,831	34,867	813,080	813,080	4,992	716
18	4,879,743	0	25,173	33,926	847,200	847,200	4,928	836
19	4,911,830	0	31,924	39,719	3,189,072	3,189,072	46,892	851
20	4,443,582	407	27,963	32,106	3,779,504	3,779,504	110,750	797
21	4,880,260	0	28,362	33,603	2,796,704	2,796,704	73,167	696
22	1,253,879	11	29,471	35,686	2,771,824	2,771,824	73,205	857
23	2,384,613	0	26,807	32,643	2,487,680	2,487,680	73,277	884
24	3,943,841	0	24,908	28,997	2,205,768	2,205,768	73,755	875
25	5,727,601	0	30,195	36,224	2,205,648	2,205,648	76,111	894
26	5,457,551	0	22,048	30,256	2,224,024	2,224,024	32,948	889
27	5,731,891	0	28,441	30,252	2,455,384	2,455,384	24,969	934
28	5,724,983	275	27,373	30,944	2,786,376	2,786,376	36,079	920
29	4,026,132	253	25,526	30,133	3,388,416	3,388,416	25,796	838
30	1,893,067	286	25,629	31,126	3,101,568	3,101,568	27,871	926
Total	133,379,246	2,871	873,071	1,033,753	50,482,216	50,482,216	1,388,405	23,152

Table 36. San Luis Field Division Energy Data

(in kWh)

November 2012

Date	Dos Amigos Pumping Plant		Gianelli Pumping-Generating Plant			
	Total Load	SWP Load 1/	Total Generation	SWP Generation 1/	Total Load	SWP Load 1/
1	1,374,840	1,230,840	0	0	142,065	10,065
2	1,374,781	1,230,781	0	0	17,699	17,699
3	1,374,640	1,230,640	0	0	17,061	17,061
4	1,429,807	1,285,807	0	0	17,468	17,468
5	850,133	706,133	0	0	17,490	17,490
6	759,148	615,148	0	0	1,168,222	1,168,222
7	903,960	759,960	0	0	1,170,818	-5,182
8	796,684	652,684	0	0	2,327,589	-24,411
9	804,605	660,605	0	0	1,561,098	-790,902
10	1,023,484	879,484	0	0	1,172,017	-3,983
11	1,011,236	867,236	0	0	1,172,204	-3,796
12	930,064	786,064	0	0	1,172,908	-1,179,092
13	1,028,014	884,014	0	0	642,796	-533,204
14	1,051,375	907,375	166,540	166,540	12,661	12,661
15	980,316	836,316	568,337	568,337	0	0
16	1,144,876	1,000,876	557,480	557,480	0	0
17	1,100,331	956,331	546,656	546,656	110	110
18	1,016,134	872,134	0	0	16,632	16,632
19	979,052	835,052	0	0	1,884,498	1,884,498
20	988,243	844,243	0	0	3,483,678	3,483,678
21	1,021,464	877,464	0	0	2,661,538	2,661,538
22	991,418	847,418	0	0	2,324,168	92,168
23	991,181	847,181	0	0	2,325,103	1,149,103
24	982,994	838,994	0	0	2,325,543	93,543
25	898,835	754,835	0	0	2,327,710	95,710
26	1,059,874	915,874	0	0	2,330,020	98,020
27	977,065	833,065	0	0	2,330,119	98,119
28	1,020,654	876,654	0	0	2,521,090	289,090
29	930,647	786,647	0	0	3,485,383	1,253,383
30	991,672	847,672	0	0	3,484,261	1,531,261
Total	30,787,528	26,467,528	1,839,013	1,839,013	42,111,949	11,466,949

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping; adjustments to SWP water shares are made to balance the mismatch.

Table 37. San Joaquin Field Division Plant Energy Load Data

(in kWh)

November 2012

Date	Coastal Branch					California Aqueduct			
	Las Perillas	Badger Hill	Devil's Den	Bluestone	Polonio	Buena Vista	Teerink	Chrisman	Edmonston
1	6,796	16,886	33,079	30,643	32,742	1,814,944	1,927,595	4,319,623	16,061,544
2	5,801	12,644	16,949	14,022	16,413	1,803,278	1,971,203	4,394,687	16,046,451
3	1,237	1,368	1,787	1,916	1,790	1,932,046	2,085,136	4,672,206	17,264,475
4	1,295	1,425	1,930	1,979	1,801	1,942,380	2,159,069	4,864,002	17,982,324
5	749	1,374	3,229	3,443	2,432	1,239,653	1,283,067	2,847,284	10,368,648
6	0	1,382	1,437	1,847	1,826	867,321	914,405	2,021,327	7,412,418
7	0	947	1,416	1,903	1,788	993,636	949,943	2,171,576	7,989,354
8	355	0	1,459	1,956	1,763	904,090	979,938	2,191,288	7,846,470
9	1,245	0	1,551	1,896	1,752	994,340	1,013,713	2,286,042	8,499,330
10	802	0	1,582	1,904	1,719	1,310,598	1,385,872	3,093,420	11,518,362
11	299	0	1,483	1,863	1,557	1,319,202	1,384,949	3,126,376	11,761,659
12	906	0	1,405	1,783	1,484	1,324,955	1,415,362	3,173,390	11,945,934
13	991	735	1,448	1,797	1,365	1,328,090	1,366,272	3,044,866	11,485,368
14	992	1,279	1,403	1,796	1,476	1,311,826	1,410,061	3,197,359	11,661,138
15	980	1,273	1,440	1,656	1,857	1,337,195	1,407,573	3,161,686	11,513,637
16	964	1,287	1,476	1,758	2,584	1,285,774	1,392,284	3,141,765	11,523,816
17	9,713	24,087	2,653	2,224	2,143	1,336,289	1,407,400	3,147,166	11,767,140
18	6,098	14,408	17,899	15,946	18,255	1,272,760	1,407,127	3,191,419	11,883,672
19	3,854	9,223	31,637	30,664	33,239	1,339,943	1,404,947	3,174,347	11,815,308
20	3,883	9,253	30,654	27,529	30,564	1,277,284	1,402,654	3,144,394	11,480,184
21	6,779	17,772	25,688	24,244	26,026	1,369,300	1,405,046	3,160,190	11,535,426
22	6,010	15,209	24,236	22,648	25,577	1,300,387	1,404,331	3,141,534	11,594,880
23	8,448	22,372	25,946	24,004	26,767	1,304,910	1,405,280	3,174,864	11,662,677
24	7,785	19,821	27,129	25,744	27,439	1,256,596	1,405,892	3,152,820	11,714,868
25	8,656	22,744	24,223	22,374	24,376	1,383,826	1,406,275	3,172,169	11,658,330
26	4,137	10,149	17,657	16,688	18,072	1,279,006	1,407,139	3,179,176	11,618,397
27	9,399	23,606	21,605	20,628	22,646	1,325,124	1,405,091	3,146,891	11,658,141
28	19,172	50,296	37,274	35,460	38,264	1,340,986	1,406,500	3,156,351	11,638,134
29	10,726	28,008	18,708	17,027	19,050	968,839	1,047,596	2,332,297	8,538,804
30	8,872	23,197	23,870	21,992	24,289	1,356,723	1,407,686	3,165,844	11,674,665
Total	136,943	330,744	402,250	379,332	411,053	39,821,299	42,369,406	95,146,359	351,121,554

Table 38. Southern Field Division Energy Data

(in kWh)

November 2012

Date	West Branch			East Branch				East Branch Extension		
	Oso Pumping Plant Load	Warne Powerplant Generation	Castaic Powerplant SWP Gen /1	Alamo Powerplant Generation	Pearblossom Pumping Plant Load	Devil Canyon Powerplant Generation	Mojave Siphon Powerplant Generation	Green spot Pumping Plant	Crafton Hills Pumping Plant	Cherry Valley Pumping Plant
1	769,175	1,657,770	2,832,000	0	2,620,583	4,021,128	270,205	36,998	49,897	5,427
2	746,922	1,652,684	2,832,000	0	2,619,792	4,026,319	301,247	36,919	49,882	5,374
3	910,348	1,655,745	2,832,000	0	2,690,710	4,591,069	307,301	39,565	49,985	5,425
4	1,055,815	1,732,396	2,832,000	0	2,731,835	4,081,003	316,481	42,333	52,119	5,701
5	879,957	1,804,858	2,832,000	0	664,076	3,818,891	68,397	40,778	50,112	5,541
6	831,579	1,806,338	2,832,000	0	0	3,277,105	0	39,948	50,090	5,541
7	882,069	1,804,893	2,832,000	0	0	3,040,832	0	41,497	50,010	5,456
8	850,851	1,803,014	2,832,000	0	0	3,212,316	0	42,928	49,920	5,428
9	783,157	1,803,319	2,832,000	0	252,692	3,197,142	37	45,888	49,857	5,358
10	450,960	1,037,848	2,832,000	0	2,366,350	3,050,734	268,105	51,628	49,782	5,347
11	342,025	1,014,128	2,832,000	0	2,600,801	2,962,717	348,719	58,743	61,360	5,352
12	342,101	864,875	1,368,000	0	2,585,456	2,653,949	319,961	53,825	57,251	5,334
13	342,873	903,120	1,368,000	0	2,342,480	2,801,059	325,180	45,710	49,873	5,381
14	409,727	905,915	1,368,000	0	2,264,904	2,758,367	298,251	43,496	49,972	5,406
15	366,681	396,268	1,368,000	0	2,404,597	2,868,534	283,236	42,237	49,951	5,418
16	409,345	911,966	1,368,000	0	2,226,521	2,898,720	249,899	49,139	62,598	5,388
17	420,267	1,050,373	1,368,000	0	2,327,091	2,830,727	261,883	44,086	55,763	5,356
18	533,765	879,301	1,368,000	0	1,991,726	2,880,691	250,798	39,715	49,891	5,366
19	677,284	1,455,335	1,368,000	0	1,781,623	2,706,116	187,320	39,683	49,893	5,377
20	820,514	1,805,674	2,976,000	0	1,111,261	1,537,729	131,432	41,005	49,914	5,398
21	861,323	1,806,543	2,976,000	0	1,144,842	1,248,707	133,627	43,027	49,954	5,368
22	823,320	1,806,451	2,976,000	0	1,327,229	1,456,650	135,318	46,832	49,901	5,392
23	837,024	1,805,549	2,976,000	0	1,161,469	1,535,436	158,838	49,753	49,965	5,410
24	849,967	1,807,183	2,976,000	0	1,121,075	1,377,054	125,845	50,041	49,972	5,416
25	922,074	1,806,017	2,976,000	0	1,183,083	1,335,168	129,731	44,460	49,968	5,418
26	597,307	1,771,724	2,976,000	0	1,971,714	1,481,551	239,027	40,044	49,622	5,416
27	933,811	1,806,999	2,976,000	0	1,080,874	1,476,281	123,213	39,973	49,423	5,405
28	1,005,961	1,804,691	2,976,000	0	1,263,111	1,439,608	142,988	39,790	49,383	5,371
29	748,463	1,781,860	2,976,000	0	865,419	1,502,906	111,758	39,880	49,425	5,372
30	1,218,907	1,808,676	3,420,000	0	269,495	1,169,413	25,220	39,895	49,418	5,370
Total	21,623,572	44,951,512	75,276,000	0	46,970,808	77,237,923	5,514,014	1,309,813	1,535,153	162,313

1/ Energy delivered to SWP by LADWP at Sylmar substation; not necessarily related to actual Castaic operations.